

Locality Lists of
Land & Freshwater Mollusca found by

A. S. S. S. S.

Including Records taken by other collectors on the same
Excursions, &c.

"Journal", vol. III.

June 30th 1911.

Killard Point, Ardglan, Co. Down. Aug. 17. 6. 11
B.N.F.C. Excursion.

Agrio. apert.

Arion subpurpureus In Oldcourt, Strangford.

Vitruvia pellucida

Hyalina allioni

Helix retundata

" *nemorata* The well known "Killard" high-spired form.

" *aspera*. On Kilchief Castle to the summit of
the turret.

" *barbata*. Var. *pifasciata* mainly.

Coch. lubrica.

Pupa cylindrica

" *muscorum*.

Vertigo pygmaea.

Loughfall district, Armagh. Aug 18. H. F. Fother.

Carb. limestone area

18.6.11.

Agrio. apertus.

Arion circumscriptus

Hyalina cellaria

" *nitida*

" *pura*.

" *radialis*

" *crystallina*

" *fulva*.

Zon. nitida.

Helix rotundata

" *pubescens*

" *nummularis*

" *aspera*.

" *limpida*.

N.H.F. by the shore of Lough-fall.

N.H.F. Loughfall quarries

Carb. lubrica.

Carychium minus

Clavus identata

Pupa cylindrica

Succinea Pfeifferi

Physa fontinalis

Limnaea pumila.

Some fine specimens with expanded lips in "Black Road Quarries" near back gate of Loughfall. after the prolonged drought they were just dying. Common in L. fall.

" *auriculata*.

" *stagnalis*

" *truncatula*

Planorbis alternus

" *contorta*

" *fontanus*

Valvata cristata

Succinea tentaculata

Sph. cornu

Pisidium submarginatum

"

"

"

"

Several dead in L. fall. var. *acuta*.

L. fall

Loughfall quarries.

L. fall + Loughfall quarries.

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Ballynabone Marsh, 1 1/2 miles S. of Armagh Town.

Aug. 18.6.11.

Agrio. apertus.

Hyalina cellaria.

Pupa cylindrica

Ballynahone Marsh continued.

*Clausilia bidentata**Limnaea peregra**" stagnalis**Planorbis albus**" contortus**" unguiculatus**Pisidium submarginatum*

"

"

see vol. I p. 73 + 74.

305.

Station good-gard, Armagh Town.
ass. 18.6.11.*Agrius apertus**Limnaea flavus**" maxium**Arion subfuscus**" circumscriptus**Hyalina cellaria**Helix rotundata**" rufescens**" nemoralis**Clausilia bidentata*Scarst Hill, Cairncastle, Antrim
ass. 25.6.11.*Agrius apertus**Arion ater* Var. *aterrima*.*" subfuscus**" circumscriptus**Hyalina cellaria**" radiata**" pura**" crystallina**Helix rotundata**" rufescens**" nemoralis**" hispida**Coch. lubrica**Pupa cyathina*

Ballygally Head, Antrim. ass. 25.6.11

*Agrius apertus**Arion ater**Hyalina cellaria**" crystallina**Helix rotundata*also. *Helix rufescens**" nemoralis**" aspersa**" hispida*

Baron's Court, Newtownstewart, Tyrone
A.S. & R.W. 1.7.11.

- Agrio. apertus*
Milax sordidus Art. introduction - garden (R.W.)
Arion rufipes R.W. V. rare.
 " *intermedius* rare.
 " *hortensis* Common all through woods.
 " *circumscriptus* Very rare
Vitrea pallidula A few dead.
Hyalina cellaria In garden only.
 " *nitidula*
 " *albina* Sp. & var. in woods.
 " *pura* " " " "
 " *radiatula* " " " "
 " *crystallina* Common.
 " *fulva* " in woods.
For. excavator Common in woods, both sp. & var.
 " (artificial?) Say. One spec. in garden (R.W.)
Hely. retundata Common
 " *lanellata* " in woods.
 " *liripida* R.W. Rare in woods.
 " *rufipes* Art. introduction in garden (R.W.)
Coch. lubrica Not common

also for *minuscule* " *lat. long.* (R.W.)
 //

- Carychium* near lake shore.
Pupa anglica One spec. in wood near small art. lake.
 " *glandula* Rare.
Acicula lineata 2 spec. var. alba with P. anglica. A new record for Tyrone.
Limnaea puzosii In lake.
 " *stagnalis* Art. introduction into small pond in garden.
Physa fontinalis R.W. rare.
Planorbis albus A small form in lake.
 " *crista* In art. pond in woods. A new county record.
Sphaerium lacustre Introduced into small pond in bog garden with L. stagnalis.
 var.

Pisidium

With Pl. crista.

306.

- In Riv. Moone at Newtownstewart Station
Limnaea puzosii Also in mill dam in village.
Lacuna Pfeifferi Round mill-dam in village. Very large.
Angul. plicatilis Common.
Macf. magentis Not seen but known to be abundant in the river.

Atley at Corickmou, near Newtownstewart
Tyrone. 250 feet alt. ASD 1.7.11.

Agrio. apertus

Am. ater

" *saffron*

" *circumscriptus*

Hyalin. cellari

Helix rotundata

" *liripida*

" *memorata*

Very large & black. a few brown also.

"Fermanagh Hills" from. i.e. light spine
purple lip and $1(23)/45$ or $1(23)/(45)$ and
formula. In old church.

00300 *litellula* outside in field.

near station at Newtownstewart

probably an introduction.

Not seen but known to be common

all along the river Moura from

Newtownstewart to Strabane (J.N. Mills)

Coch. lubrica

Clavicorn. pidentata

Pupa cylindrica

B.N.F.C. Excursion to Caragh District. July 1911.

Several collections made but not additions to
lists entered on pages 275-285, Vol. II.

River Lane at Belterpet, Caragh.

ASD & ASD. 13.7.11.

Agrio. apertus

[*Helix rufus*

asperna]

Only seen in garden. Probably introduced.

Limnaea pumila

" *palustris*

" *stagnalis*

Planorbis pumila

" *convoluta*

" *rotunda*

" *alba*

" *costata*

Bith. tenticulata

Valvata pumila

Anodonta cygnea

Sph. cornu

Dead shells only.

Pisidium amnicum

" *lenslowianum*

30/

Royal Canal, 1 mile East of Mullingar
Westmeath. and. 14.7.11.

Helix *insculpta*.
" *rotundata*.
" *remorali*.
" *aspersa*.
Pupa cylindrica
Carychium *min*
Clavibis identit
Limon peregr
" *palustris*
" *stopnali*
Physa fontinalis
Planorbis albus
" *rotax*
" *carinatus*
Bith. tentaculata
Veronica fluvialis
Ph. cornu.

From Rathfriland, Clonsilla, East Mayo.
and. 14.7.11.

Helicella italica

Clare Island Survey, 4th visit.

The Warren, North Achill, West Mayo. and. 15.7.11.

Agrius apertus. Var. *humana-reticulata*, Common.

" *lilacina*, rare.

near "Cahin".

Meloe gazette

Arion ater

" *intermedius*

Vitonia pellucida

Hyalina cellaria

Helix pulchella

" *tartara*.

" *remorali*

" *italica*

Coch. lubrica

Pupa cylindrica

Laccaria picipes

Limon peregr

" *auricularis*

" *truncatula*

Planorbis cristatus

" (glabra)

A dead shell - L. Doo.

N.B. The *Vallonia*s were subsequently mixed with those taken here in 1909 and mounted. Both *excentrica* & *pulchella* occur in the box & possibly one was taken in 1909 & the other in 1911. A.W.S. 1924.

L. Doo. 308.

L. full. 309.

Pisidium pichin L. Doo.

" *liljeborgi* L. Doo.

" *purillae* L. fall.

" *pulchella* L. Doo.

Smooth Iron

B.B.W.

The small group named
A.W.S. 1922.

Sept. 1909. Not seen this visit.

Later as *excentrica* only is recorded in vol. II, p. 31, for 1909. It is probable that the *pulchella* were taken in 1911. A.W.S. 1924.

Cliff of North Shore (L. Nakuroge East) West Achill.
West Mayo. Aug. 16. 7. 11.

Agrio. apertus
Milox. jagata
Arion ater
" *intermedius*
Hyalina alliaia
" *fulva*.
" *fulva*.
Helix astundata
" *memoralis*
Clausilia pidentata
Pupa anglica.
" *cylindrica*
Psidium

Rejectamenta from
Keel Lough, Achill,
15. 7. 11

Psidium lilliputianum (310)

Outlet of Keel Lough, Achill
15. 7. 11

P. pulchellum (311)
P.

312

Signal Tower

Arion ater
" *intermedius*
Agrio. apertus
Hyalina alliaia

Helix astundata
Pupa cylindrica

North-east Cliffs (No. 3) Clare Island, W. Mayo.
Aug. 17. 7. 11.

Agrio. apertus. Vars. *reticulata* + *hunnica*.
Limax asper Var. *memoralis*?
Arion ater Vars. *costarica* + *plumbea*. No. type.

" *sulphureus*.
" *intermedius*
Vitula pellucida 1 dead shell.
Hyalina alliaia Var. *viridula*. Dead.

" *radiatula* Type.
" *crystallina* A. few dead shells.
Gr. excavatus Type. Very common about Portlaoine.
Helix astundata Very common + very large.

" *memoralis*.
Coch. lubrica.
Pupa cylindrica
Clausilia pidentata

AVULLINI
Lough Anulla. (312A)

Psidium milti
" *purill*
" *caristum*
First record for Clare Island } B.B.W.

P. purill Cressa Lough. (312B)

North-east Cliffs (No. 5), Clare Island, W. Mayo.
 Aug. 17. 7. 11.

Agrio. apertus. Var. brunnea.

Linax c. niger. No spec. almost type in old lime-kiln
 on cliffs above "Lighthouse" Cove.

Arion ater Type & var. cartonea & flamipes.

" suffusus

Vitrea pellucida Dead.

Hyalina alliana Dead.

" nitidula No spec.

" crystallina Dead shells.

" fulva.

Helix retundata

" hispidula

" itala

" nemorali

Coch. lubrica.

Pupa anglica.

Vertigo antistipis

" substriata

" pygmaea.

Clausilia pidentata

Carychis cinn.

Also.

Succinea Pfeifferi

Linax truncatula

Maum Valley (Ruined Cottage) No. 3.
 Clare Island - W. Mayo. Aug. 17. 7. 11.

Agrio. apertus

Arion ater

" suffusus.

Hyalina alliana Var. nitidula.

" nitidula

Jm. excavatus Type very abundant.

Helix retundata

Sphyradin edentata

Corticea glauca ("Prayer's Word") Clare Island.
 No. 3. Aug. 18. 7. 11.

Linax arborum

Arion ater

" suffusus

" intermedius

Vitrea pellucida

Hyalina alliana

" crystallina

" fulva.

Jm. excavatus Type & var. nitidula.

also. *Helix retundata*.

" lamellata.

& *Clausilia pidentata*

North Cliff of Knocknaree, Clare Island
250-300 feet alt. Aug. 18.7.11.

Aprio. apertus
Arion ater
" *suffusus*
" *intermedius*
" *circumscriptus* Very scarce.
Vitrina pellucida. Dead.
Hyalina alleani Rare.
" *nitidula* Very common.
" *para*. Abundant.
" *crystallina*
" *fulva*.
Helix retundata
" *nemoralis* Including one var. *citrinogorata*.
" *fulva*
Coel. lubrica
Carychium minium
Purpura anglica.
" *cylindracea*
Clausilia pidentata.
Bulax pumila.

This spec. was brought home alive & in 1913 bred with a similar specimen from near Cloghane, Single Promontory, Kerry. All the young proved to be of the var. *citrinogorata*.

Very rare in one spot - beneath an overhanging piece of rock - when it occurred - Sept. 1909.

17.
Marsh at Harpur, Clare Island. No 1.
and 18.7.11

Milax fagata
Succinea pfeifferi. Fine specimen beside drain, along side road.
Limnaea peregrina Abundant in mud of dried up pools
" *palustris* a few fine specimens with *L. peregrina*.
" *truncatula*.
Pisidium carolinianum

313.

Knocknaree Top, Clare Island, No.

Aprio. apertus
" *laevis*
Arion ater Var. *carolinianus* & *planica* & type.
Hyalina radiatula
Jon. excavata Type.
Purpura anglica
Limnaea truncatula
Pisidium

314.

McCabe's Garden, Harbour, Clare Island.

No. 1

19.7.11.

Arion ater

" *lortensis*

A few specimens (all young) and undoubtedly brought from the mainland with goods.

Agrio. apertus

Limax maxim

One 3/4 grown specimen. Undoubtedly introduced by man.

Helix rotundata

" *aspera*

}

1300 foot Cliff, Croaghmore Cliff. No. 8.
Clare Island. ASD. 19.7.11

Agrio. apertus

Arion ater

" *sulphureus*

" *intermedius*

Vitrina pellucida

Hyalina albescent

Var. *viridula* + type.

" *nitidula*

" *para*

" *crystallina*

Helix rotundata

" *aculeata*

Rare. only one seen.

" *fuscus*

Dead shells very common.

Coch. lubrica

Pupa anglica

" *cylindrica*

Clausilia pidentata

Carychium mini

Sph. edentata

Acicula lineata

Lemna truncatula

}

Near sand dunes at Harbour, Clare Island. No. 1.
ASD 20.7.11.

Agrio. apertus

Limax arborum

Arion ater

" *sulphureus*

" *intermedius*

Hyalina cellaria

Jon. excavatus

Helix rotundata

" *lipida*

" *aspera*

" *remorata*

" *intusata*

" *itala*

Coch. lubrica

Carychium mini

Pupa cylindrica

}

South Shore, No. 1, Clare Island.
 and 20. 7. 11.

Agrion agrestis.

Limos arborum.

Arion ater.

Var. plumbea + castanea

" *saffurca*.

" *intermedium*

Hydrobia crystallina

Jon. excavata.

Helix rotundata

" *nemorali*

Coch. lubrica.

Carychium mini

Vertigo substriata

Clavus bidentata

Pupa anglica.

Pisidium

315

}

Clare Island, West Mayo.

2 1/2 hours collecting. and 21. 7. 11.

One fine specimen in fields near church.

Re. open with L. arborum.

Common. Var. turnera.

In damp spot on shore below church.

Frequent.

"

Abundant dead under stones between the lake & south shore with H. pulchella.

Type common.

Vitt. Agrion laevis.

" " "

Frequent.

Vitt. L. arborum.

Vitt. H. nitidula &c.

Frequent but scarce.

excentrica! d.w.s. 1934.

Common with V. pallidula

South shore. Common.

Round church & south shore.

Frequent.

"

In damp spot along north-east cliff.

Frequent.

Limos arborum.

Milox gajatus

Agrion agrestis.

" *laevis*.

Arion ater

" *intermedium*

Vitina pallidula

Hydrobia allium

" *nitidula*

" *pura*

" *radiata*

" *crystallina*

" *fulva*.

Helix rotundata

" *pulchella*

" *itala*

" *arperon*

Coch. lubrica

Carychium mini

Pupa anglica.

" *excentrica*

Cake Island continued.

Vertigo antevittata Several places. South shore & with
Pupa anphibia.
" subtrita With *Agrio. laevis*.
" pygmaea South shore.
Limnaea pygmaea Lake near Cake Pt & in pools
near highest part of the island.
" truncatula North-east cliff with *P. anphibia*.
Psidium milium Lake at Cake Pt. } B.B.U.
" personatum " " " }

316

INISH TURK.

South eastern corner. Aug. 22. 7. 11.

Agrio. apertus.
" laevis. In a damp gully near ^{extreme} south-east corner.
Limnaea asprum.
Arion ater. Type & var. castanea & plumbea.
" suffusus.
" intermedius.
Hyalea nitida.

Inish Turk continued.

Hyalea pura.
" radiatula
" crystallina
" fulva. Type & var. nitida.
Im. excavata With *Agrio. laevis*.
Hel. pygmaea
" rotundata.
" hispida.
" itala.
" aspersa.
" renouali.

Very common everywhere.
Many birds (^{through mistle} Black Bird) eat
specimens of this & *H. aspersa* to
be seen everywhere. Rare alive.

Coch. lubrica
Carychium minus
Cleurelia identata Local & not common.
Vertigo antevittata Frequent
" subtrita With *Agrio. laevis*.
" pygmaea Only one specimen seen.
Pupa anphibia Common in damp fields & gullies.
" cythra
Limnaea truncatula In wet places.
Psidium cosentinum. In dried up bog-pools.

317

West End + Central Part of Jisktur
West Mayo. Aug. 22-7-11.

Aprio. apertus
Lemna ~~abundant~~
Arion ater

Var. castanea + *plumbea* + *grisea*
frequent. *Var. albolateralis* a small
colony on small cliffs south
of valley in thick birch Lough Allen.

" *suffusus*.

" *intermedius*

Hyalina alliana

" *nitida*.

" *radiata*

" *crystallina*

Jon. nitida.

several dead shells under stones
along north-east side of L. Namucka.

Helix rotundata.

Coch. lubrica.

Vertigo antevestigo

Shore of Lough Coolaknick.

Jisktur continued
Lough Coolaknick, 300ft (?) alt.

Lemna perger

Not plentiful

Pisidium caeruleum

In boggy pools below lake. B.B.W.

" *perovskiae*

" *nitida*

" *milium*

" " " " " "
In the lake italy

B.B.W.

B.B.W.

318

Lough Namucka

Lemna perger

" *palustris*

Pisidium pusillum

B.B.W.

319

Lough Allen.

Lemna perger

One dead shell.

North-east shore, Irish Turk, West Mayo.
 ASD. 23. 7. 11.

Agrio. apertus
Lima, arborum. A pale mottled form.
Milax papilion. All dark in colour.
Arim. ater Var. aterrima.

Hyalina altissima a few dead shells.
Zon. excavata

Helix rotundata
 " *itala*
 " *aspera* } Both extend for a mile North of the
 Harbour at Fanny.

Collected in the vertical "pipe" of *Styphnolice*.
 N.E. Irish Turk. ASD. 23. 7. 11.

Arim. intermedia Very common.
Vitrina pellucida a single dead shell. The only one seen on the island.

Hyalina nitidula
 " *crystallina*
 " *fulva*.
Zon. excavata
Helix rotundata
 " *nemoralis*. All young shells.

Also.
Coch. lubrica.
Carych. min.
Pupa anglica
 " *cylindracea*
Clausilia bidentata

Scrubby Cliffs above harbour at Fanny. Irish Turk.
 Also from Harbour Village ASD. 23. 7. 11.

Agrio. apertus
Arim. ater

" *sulphurea*
 " *intermedia*

Hyalina nitidula

" *fulva*.
 " *crystallina*

Zon. excavata

Helix rotundata

" *hispidula*

" *nemoralis*

" *aspera*.

Coch. lubrica

Pupa anglica

" *cylindracea*

Carych. min.

Clausilia bidentata

Types *M. nitida*

Lima, flavus

Angula flavicollis

L. pueri, *Psidium*

Introduced. One under stone beside C.D.B. Store.
 In stream running into Harbour.
Psidium (B.P.W.).
 In stream & pools run well behind Chapel.

Irish Bog (Church L. + S.E. corner).
West gateway. Aug. 24. 7. 11.

Limonax arborum

Meloe gajata

Agrio. apertis

" *lucina*

Arion ater

" *suffusus*

" *intermedius*

Vitrea pellucida

Hyalina cellaria

" *alliarum*

" *nitidula*

" *radiatula*

" *fulva*

Helix reticulata

" *italica*

" *perna*

" *aspera*

" *nemoralis* Dead inf.

" *lipida* Dead inf.

Under E. Window of Church.

Coch. lubrica

Cyathus

Pupa anglica. Shore of Longhouse pond.

" *cyanea*

Vertigo pygmaea Only one specimen seen.

" *antivertigo* Frequent.

" *substriata* Shore of Longhouse pond.

Balca parva S.E. corner of wall enclosing church-yard.

Limnaea peregrina } Church Lough.

" *palustris*

" *truncatula*

Planorbis cristata Longhouse pond.

Pisidium milium

" *caerulans*

" *orthoceras*

" *pusillum*

Church Lough & outlet.

321

all verified
by B. B. W.

North-West corner of Irish Bog. W. J.
Aug. 25. 7. 11.

Agrio. apertis

Limonax arborum

Meloe gajata

Arion intermedius

Var. rana. Near shore at L. Bog.

Irishbopin (N.H.) continued.

- Vitrea pellucida.
- Hyalina cellaria
- " alliana
- " crystallina
- Helix rotundata
- " ~~fruticosa~~
- " itala.
- Coel. lubrica
- Purpa glandula
- Clausilia pidentata

excentrica! a.W.S. 1924.
Several sandy places, between L. Bopin & Royal Oak Cove.
" " " " " "

A single living specimen on the cliffs at Alla doon.

Lough Fawna, Irishbopin
25.7.11

Limnaea peregrina.
Pisidium obtusale. Veripia of B.B. Woodward. (322)

Bannamullan Bog, Irishbopin. N.G.
A.S. 25.7.11.

- Agrio. agrestis.
- Arion rufipes
- " intermedius
- Limax arboreus.
- Milax paganus
- Hyalina alliana
- " nitidula
- For. excavatus
- Helix rotundata
- Coel. lubrica
- Purpa glandula

Mostly collected on cliffs facing north about 1/4 west of Bannamullan Bog

Loughna grooan, Irishbopin, A.S. 26.7.11

- Limnaea peregrina
- Pisidium obtusale

223

North-east corner of Inishfin, N.G. 26
 Aug. 27. 7. 11

Agrio. apertis

" *laevis*

Clonamore.

Milax fagata

"

Limax arboreus

Arion ater

" *suffusus*

Vitrina pellucida

Near Doonahineena (afterwards called "Doon")
 Clonamore.

Hyalina cellaria

" *nitidula*

" *alluvii*

" *pura*

all at Doon or rather east of it.

" *radiata*

" *crystallina*

Helix stans

" *nummuli*

Near Doon.

" *aspara*

Clonamore.

" *itala*

" *pura*

Sph. edentula

Near Doon.

Coch. lubrica

Cyprina

Purpura

Clonamore

" *glandulosa*

Vertigo substriata

Clonamore.

Planorbis identata

Near Doon.

Limnaea peregrina

" *truncatula*

Pl. spiralis

Meadow-land at Clonamore

Pisidium

" *nitidum*

" *subtruncat*

" *milium*

verified by B.B.W.

324.

Lough Inishfin, Inishfin
 Aug. 27. 7. 11.

Limnaea peregrina

Pisidium hibernicum

The second known habitat for this species

" *pusillum*

" *nitidum*

" *milium*

325.

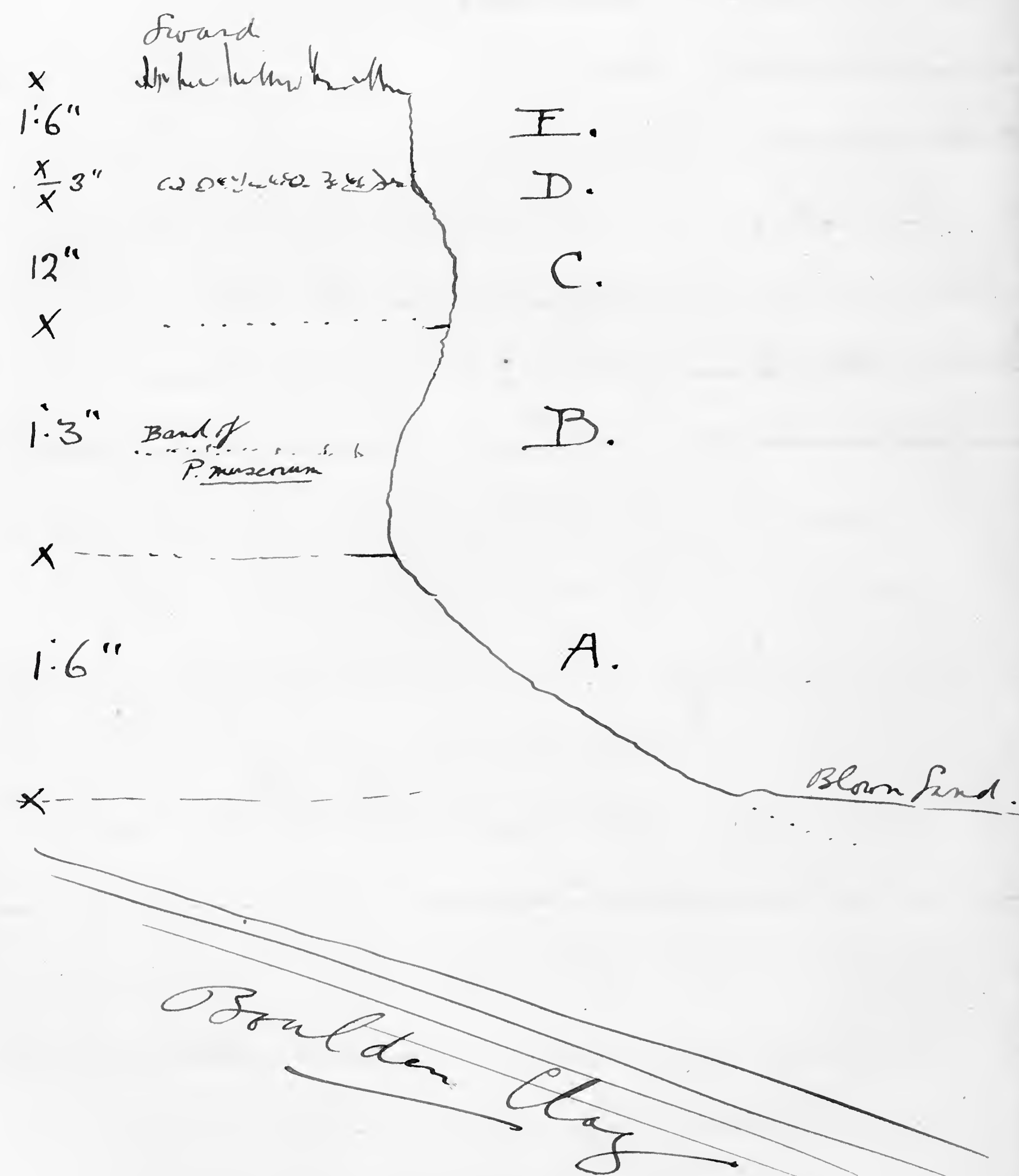
all verified by B.B.W.

BASIC DYKE



Cliff with good shell ground

Section of deposit (post-glacial) at
(opposite Hudson) Irish Hill, West Galway
and S. 27. 7. 11.



Stratum A.

Contained no shells. Fine flower sand.

Stratum B.

Contained: - *Hel. itala* (scattered), *Coch. lubrica* (scattered) + *P. muscorum* (in distinct sand)

Stratum C.

Contained *Hy. alliaria*, *nitidula*, *pupa*, *Helix hispida*, *pulchella*, *costata*, *retundata*, *pygmaea*, *remoralis*, and *aculeata*, *Coch. lubrica*, *Calymene*, *Pupa anglica*, *cylindrica*, *muscorum*, *Clavella bidentata* and *Vorticella substriata*.

Stratum D. was only noted in place. It contained purely marine shells. Mainly *Littorina*;

Stratum E.

Contained: - *H. itala* (common), *H. bastera* (frequent), *H. remoralis* (rare), *H. hispida* (rare), *H. pulchella* (common), *Hy. nitidula* (frequent), *C. lubrica* (frequent) and *Clavella bidentata* (V. rare)

Church Lough district, Firth of Forth, 4.8.
 and 27.7.11.

Agrio. aperta
Limax arboreus

Arion ater

Vitellina pellucida

Hyalina cellaria

In church yard

" *alliana*

" *nitidula*

" *pura*

all on cliffs south of Lough.

" *radiatula*

" *cystellina*

Jon. excavata

Helix rotundata

" *lupida*

In church yard, beneath E. window.

" *remoralis*

on cliffs.

" *aspera*

Church & sand dunes

" *itula*

sand dunes

" *subana*

Coch. lubrica

Carychium minimum

Pupa asphix

mainly m. aff. on cliffs.

" *cylindrica*

Church Lough (continued)

Limnaea peregrina

" *palustris*

" *truncatula*

Pisidium rotundatum In pools above & S. of lake.

" *casertanum*

" *pusillum*

No! I think these came from the lake on 24-7-11.

" *milium*

326

} all verified by O.B.W.

Doraghty (mainland) West Mayo.
 and 28.7.11.

Agrio. aperta

" *laevis*

Arion ater

Hyalina alliana

" *nitidula*

"

"

" *radiatula*

" *cystellina*

" *fulva*

Jon. nitida

Doraghty continued

Helix rotundata.

" *pulchella*.

" *lamellata*.

" *furva*.

" *itala*.

" *aspera*.

" *nemorali*.

Coch. lubrica.

Larythin mini.

Vertigo antistylis.

" *pygmaea*.

" *subtrita*.

" *angustior*.

Acicula lineata.

Succinea pfeifferi.

" *officinalis*.

Limnaea puzosii.

" *palustris*.

" *auriculata*.

" *stagnalis*.

" *truncatula*.

Physa fontinalis.

In old scrub at
with *H. lamellata*.

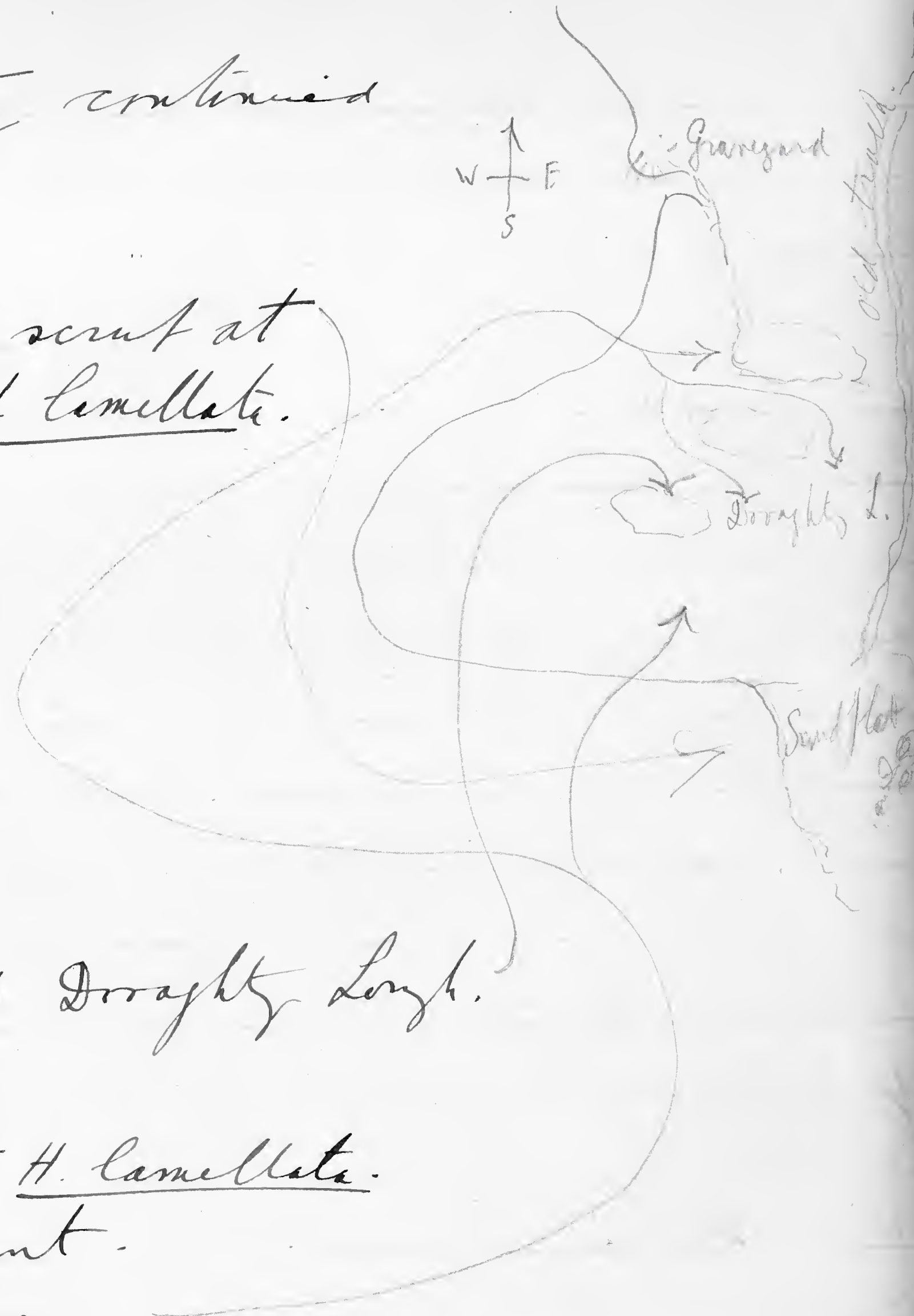
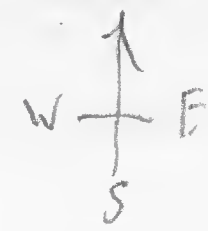
Round Doraghty Lough.

With *H. lamellata*.

Frequent.

Common.

Verified in 1934 by Quirk on *S. auriculata*
which I collected. He said it was the same as
List, but H. S. Kennard assured me that
they were really a series of changes. A.W.J.



Apleta hypnum Doraghty Lough.

Psidium coccineum

B.B.U.

" *nitidum*

B.B.U.

" *pusillum*

B.B.U.

327.

Curraun Mountain, West Mayo.
col. 29.7.11.

Arima atr Up to 1500 feet.

" *sulphurea* " " 1200 feet.

Ancylus flavitinctus In Lough Cullylea, about 800 feet alt.

Psidium coccineum

(B.B.W.)

Very large specimen like the Norway
example for *Psidium*.

328.

Dryas dirka, Slieve Donard, West Achill.
as S. 30.7.11

Arion ater
Limax arbus

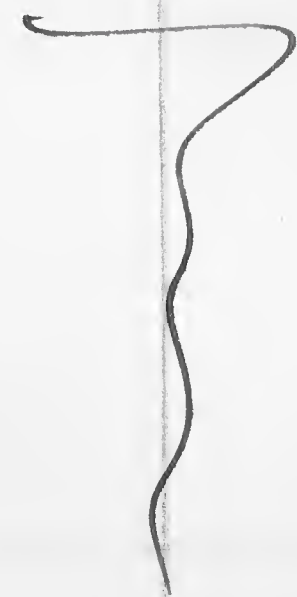
up to 1000 feet.

No other species seen.

Slieve Donard in Slieve Donard. as S. 30.7.11

Arion ater
" *sulphureus*
Limax arbus } Up to 1800 feet.

No shells seen in Lough Beg, 850 feet alt.



Cliffs at Carriglea, E. of Dooport
North Achill. as S. 30.7.11.

Arion ater.

" *sulphureus*.

" *circumscriptus*. Very rare.

Hyalina altilinea

" *nitidula*

" *crystallina*

Sph. edentata. One specimen.

Helix stans

" *fusca*. Common

" *memoralis*. Frequent young

Coch. lubrica

Carychium

Pupa anglica Frequent.

" *glindensis*

Clavella fidentata Common. See J. S. Milne J. of C. VI-412(?)



Dooport sand-dunes.

Helicella itala

" *subma*.



Bannamucka Lough, Portarck (between
Mullanny + Newport). W. M. J. 31.7.11.

Limnaea peryz
" *truncatula*
Planorbis cristatus
Pisidium milium
" *sul truncatula*
" *pusillum*

B. B. W.

B. B. W.

B. B. W.

329.

Breavagh Lough, ^(SW) north of Newport.
W. M. J. 31.7.11.

Limnaea peryz
" *palustris*
Apleta hypnum
Planorbis fontinalis
" *cristatus*
" *altus*
" *contortus*
Valvata cristata
Bith. tentaculata
Sp. commun.

①

And

Pisidium obtusale B. B. W.
" *milium* B. B. W.
" *pusillum* B. B. W.

330

Doogan Lough, E. of Newport. W. M. J.
31.7.11.

Limnaea peryz
" *palustris*
" *stagnalis*
Planorbis altus
" *contortus*
" *spiralis*
Valvata cristata
Bith. tentaculata

a beautiful stone from.

②

Pisidium casertanum B. B. W.
" *pusillum*
" *lilljeborgi* B. B. W.
" *milium* B. B. W.

331

Newport district.
31.7.11.

Anisus albus 1 + 2.
" *suffusus* 1.
Limnaea stagnalis 1.
Agrius agrestis 1.

Newport district (continued).

<i>Hyalina uelloria</i>	Dead. 1.
" <i>radiata</i>	2.
" <i>crystallina</i>	2.
<i>Fra. nitida</i>	2.
<i>Helix hispida</i>	Near 1.
" <i>refusa</i>	Near 1.
" <i>aspera</i>	Near 1.
" <i>memoralis</i>	Near 1.
" <i>itala</i>	Near 1.
<i>Vertigo pygmaea</i>	2.
<i>Pupa glabra</i>	1.
<i>Clavella bidentata</i>	Near 1.
<i>Phytia nigroti</i>	Near 1.
<i>Paludetina</i>	
<i>stagnalis</i>	Near 1.

}

Newport district. N.M.
and J. 18-11

<i>Agrio. apertus</i>	
<i>Arion ater</i>	Var. <i>funnea</i> .
" <i>suffusus</i>	
" <i>lortensis</i>	
<i>Limax maximus</i>	
<i>Milax pageta</i>	Var. <i>rara</i> .
" <i>maritima</i>	
<i>Hyalina uelloria</i>	
" <i>radiata</i>	
<i>Helix retundata</i>	
" <i>hispida</i>	
" <i>refusa</i>	
" <i>superciliosus</i>	
" <i>memoralis</i>	
<i>Coch. lubrica</i>	

}

River Carron by, above Westport. W.M.
 Aug. 1.8.11.

Limnaea peregrina
 " *palustris*
 " *truncatella*
Planorbis alba
 " *contorta*
Bitt. tentaculata
Valvata piscinalis
Sph. cornu
Anodonta cyanea
Pisidium

332

Pond in Lord Mayo's Demesne (above fell)
 Aug. 1.8.11.
Limnaea peregrina
Planorbis alba In millions.

Bitt. tentaculata
Valvata piscinalis
Sph. cornu

Pisidium patellum frequent.

333

END OF
 CLARE ISL.
 SURVEY

Lough Gall demesne (garden), Armagh.
 Aug. 12.8.11.

Limnaea *maxima*
 " *[flava]* (tracks of a large yellow slug reported by gardeners)
Hydrobia ulterius
Helix rapum on apple & pear trees.
Limnaea peregrina
 " *auriculata*
 " *stagnalis*
Pl. contorta
Bitt. tentaculata
Sph. cornu

Ringshaddy Castle, Sharpside Lough, Down.
 Aug. 20.8.11.

Anis at
Hydrobia ulterius
 " *allian*
Helix rotundata
 " *hispida*
 " *remorata*
 " *aperta*

Also. *Coch. lubrica*
Pisidium glandulosum
 + *Clausilia bidentata*

Kells (1) and Flemish (Mt) (2), Antun
Cust. 26. 8. 11.

- Agrio-apestis* 1+2.
Limax artman 1.
 " *maximus* 2. Fine large + spotted specimen in
 field north-east of Flemish.
Arion ater 2.
 " *suffusus* 2.
 " *intermedius* 2.
 " *circumscriptus* 2.
Vitina pellucida 2.
Hyalina cellaria 2.
 " *alliana* 2.
 " *nitidula* 2.
 " *pura* 2.
 " *crystallina* 2.
Helix stundata 1+2.
 " *leipida* 1+2.
 " *nemorali* 1+2.
 " (*lortensis*) A single specimen taken by J. L. S. Jackson
 under a stone in field north-east
 of Flemish upon B. N. F. C. excursion
 in. The spot is a rough

See p. 137-138.
 for misprints in record.

semi-cultivated area with patch
 of native scrub here & there still
 remaining. The dry summer prevented
 any chance of my finding
 this shell upon this occasion.
 This is the only Antun record for
H. lortensis but there is no doubt
 that it is correct for the date
 was extracted of R. Stander
 of Manchester. See 1. 11. XVI, 281. 1907.

- Carychium minus* 2.
Pupa glandulosa 1+2.
Clavistylis pidentata 1+2.
Succinea sp. found at 1.
Limax peregrinus 1.

Sept Trip 1911.

As Stetfort, R. Welch, L. E. Adam, E. Collins
& C. E. Wright.

Canal at West Drayton, Middlesex.
As S & R.W. 9.9.11.

Hyalina lucida

" *cellaria*

" *nitida*

" *rogersi*.

Helix hispida

" *rupestris*

" *granulata* Dead.

" *cantharus*

" *hortensis*

" *memoralis*

" *aspera*.

" *arbutum*

" *rotundata*

Coch. lubrica

Clausilia viduata

" *alpina* ?

West Draughton continued.

Succinea Pfeifferi
Limnaea peregrina
 " *stagnalis*
 " *auriculata* Red.
 " *palustris*
Physa fontinalis
Planorbis vortex
 " *altus*
 " *contorta*
Byth tentaculata
Valvata piscinalis
Sph. rivicola
 " *cornu*
Paludina vivipara
Anodonta cyanea
Unio tumidus
 " *pictus*

83.
 Ham Marsh at Greenhithe, West Kent.
 A.S., R.W. & A.S. Kennard. 10.9.11.

Hyalina nitidula
Helix hispida
 " *nemoralis*
 " *aspera*
 " *cantharus*
 " *virgata*
 " *intersecta* = *capitata* Mont.
 " *refusa*
 " *pulchella*

Anemone hepatica. Millions at roots of grass, *Glaux maritima*
 & the plants just at high tide mark.

Physa myosotis
Limnaea peregrina
 " *palustris*
Physa fontinalis
Planorbis uniplicatus
 " *cornu*
 " *vortex*
 " *spiralis*
Byth. tentaculata

Also *Pal. stagnalis*
 " *ventrosa*
 " *jinkinsi*

Pisidium nitidum ✓
 one very depauperate shell.
 ver. A.S.S. 1924

334

Near Stoneham Farm, South Malling, Lewis
East Sussex. AS + RD. 11.9.11.

Vitruia pellucida

Hyalenia cellaris

" *nitidula*

Jm. nitidus

Helix rotundata

" *hispida*

" *refusa*

" *cantharus*

" *rupestris*

" *itala*

Several dead.

" *intertexta* = *capitata* Mont.

" *herpessens*

" *aspera*

" *pubescentella*

" *costata*

" *remota*

Coch. lupina

Carychium minus

Papayoides

" *muscorum*

" *recalc.*

in down (RD) one specimen only.

Claustilia identit. a specimen from approach *C. dubia* Drap.

"

in some way

Well marked
intersegmentary



" *laminata*

Era opura

Succin putri

" *officinalis*

Lin. stagnalis

" *perizon*

" *palustris*

Planorbis umbilicatus

" *rotundus*

" *contortus*

Bith. tentaculata

Valvata macrostoma

See p. 64. In full list →

In the first drain in the marsh at end
of lane. The 2nd British Habitat.

Physa putrida

Sphaerium cornu

Ceriodia mellea

(335.)

Bank of the Ouse from Lewes to
 Offham, ES. and R.W. 11.9.11
 Arion ater L chalk pit Offham. The first
 slug seen on the trip.

Hydrobia cellaria

" *nitidula*

Helix stundata

" *leipside*

" *rufescens*

" *cautiana*

" *aspera*

" *virgata*

" *intersecta* = capitata mont.

Corb. lubrica

Clavilia pidentata

Gelostoma elegans

Lima peruviana

" *palustris*

" *stagnalis*

" *truncatula*

Physa fontinalis

Planorbis cornu

In one drain only

" *rotax*

A. umbilicata

" *contorta*

Succinea putris

Bitt. tentaculata

" *leachii* ?

Pal. jenkinsi

Sph. cornu

" *lacustris* In dead shell.

Pisidium

836

missing

Pevensey Level, Pevensey, ES.
 and, R.W., C.E.O., L.E.A. & E.C.

12.9.11.

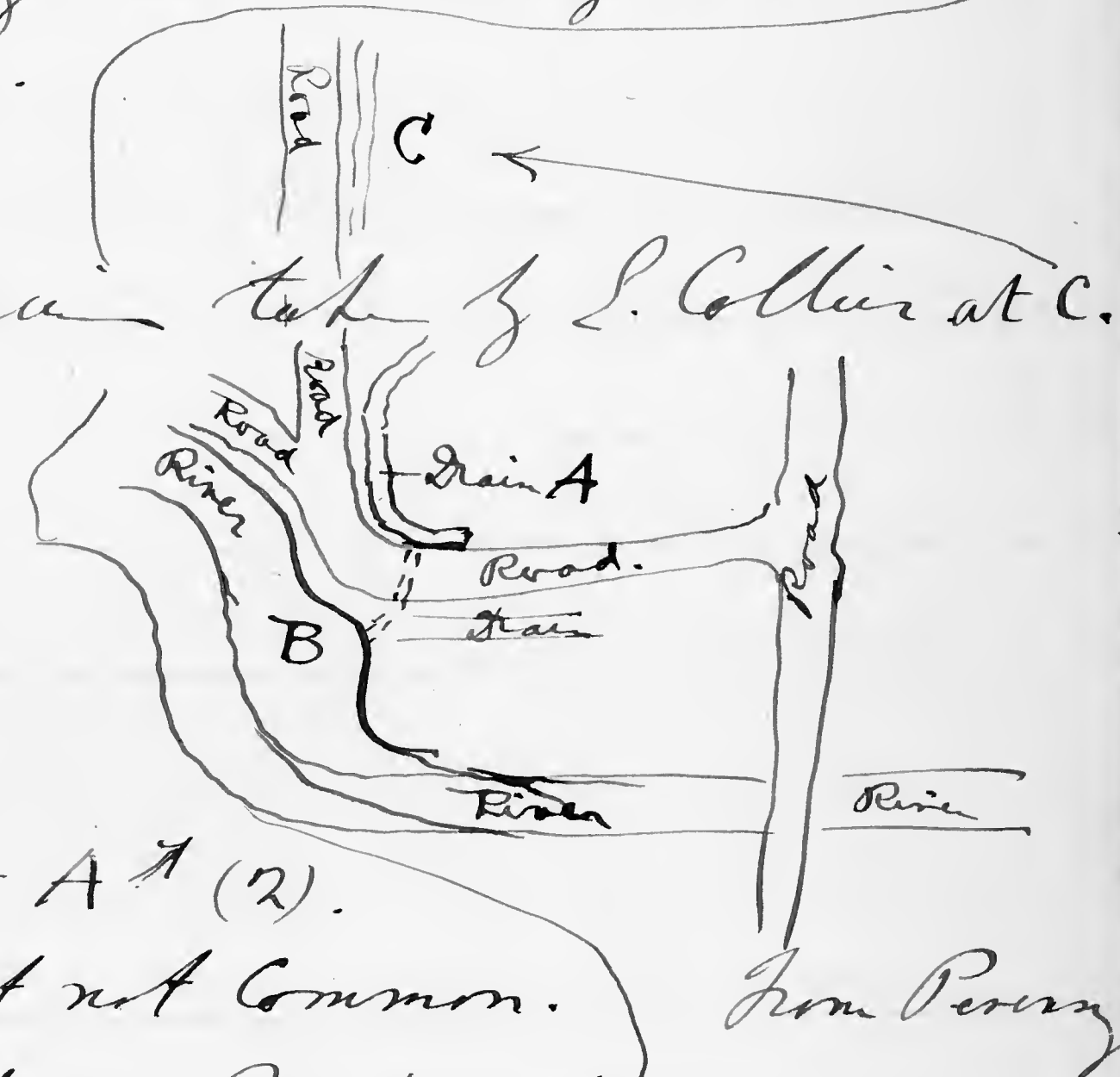
- ① Moat, & of Pevensey Castle.
- ② Old Haven Marsh, east of Pevensey
- ③ Westham Marsh, south-west of Pevensey
 station (1 1/2 miles).

Perry Level continued

- Hydrobia uliginosa* 1.
Helix rufescens 1.
 " *rugata* 2.
 " *contorta* 2.
 " *aspera* 1.
Papa glaucus 1.
Succinea Pfeifferi 1 + 2.
Limon pulex 1, 2 + 3.
 " *auriculata* 2. In river just outside town.
 with *a. cyanea*, + " at B →
 " *stagnalis* 1, 2 + 3.
 " *palustris* 1, 2 + 3.
Physa fontinalis 1, 2 + 3.
Planorbis albus "
 " *umbilicatus* "
 " *montana* "
 " *reticulatus* "
 " The refinding of this overlooked species was the main reason of my visit to Perry (see A.S.K. Jour. of Malac.) It was quite common in some drains, but

local and appeared to be living along the grass at the edge of the drain, while *P. montana* was common in the middle of the drain. Its habits resembled *P. cristata* + *P. fontana*.

- P. cristata* C.E. Wright only. 2. Evidently rare.
 " *fontana* Rare. 2 + 3.
 " *contorta* 1, 2 + 3.
Segmentaria nitida 2. One fine specimen taken by J. Collier at C.
Bith. textuata 2 + 3.
 " *leachii* 1, 2 + 3.
Valvata cristata
 " *macrostoma* A few spec in drain at A (2).
 " *piscinalis* 2. At B. Not common.
Pal. jenkinsi 2. Several at B. Rare. Var. *coronata*.
Sph. cornu 1, 2 + 3.
Anodonta cyanea Dead shells in River at B. 2.
Pis. amnicum One at C (Collier or Wright) 2.
 " *pulchella* 4. 3.



- 1 (337) Mont.
 2 (338) Old haven
 3 (339) Waltham.

Roadside to Houndean Bottom, Drans at
Racecourse and woods & marsh near
Offham, Lewes, ES.

Ans, RW, E.C., L.E.A., & C.E.W. 13.9.11.

Vitrea pellucida Dead shells of a very large form.

Hyalin cellaria

" *nitidula*

" *pura*.

Helix rotundata

" *pulexella*.

" *leipida*.

" *rufescens*

" *cantrina*

" *nemorata*

All dead. Some large shells.

" *aspera*

Very large dead shells in Offham Woods.

" *itala*

One dead in Offham Woods.

" *rigata*

" *intermixta* = *capitata* Mont.

" *leipensis*.

" *carthusiana*

On right hand bank 1/2 mile along
the Brighton Road just prison.

All young & many killed with the
drought. No rain here since
15th of June, when a shower lasting
20 minutes fell.

Ena obscura.

Coch. tubicula.

Claviclea fidentata } Common in Offham Woods.

" *rolphi*

" *laminata* Offham Woods. This is the same place
for white speck. A few seen.

Cyclotoma elegans

Marsh along the course of Gokshute Stream
near the Priory, Lewes, ES.
Ans & C.E.W. 13.9.11.

Jon. nitida

Helix rigata

" *aspera*

" *cantrina*

Lim. puzos

" *pulchra*

Cockshute Marsh, Lower, cont.

Lemna stagnalis" *truncatula**Physa fontinalis**Planorbis contorta*" *unpunctata*" ~~unpunctata~~*Bith. tentaculata**Valvata piscinalis* Dead. Very light spined form.*Meristina planorbis* In the stream.*Sph. cornu**Pisidium amicum* In the stream.

"

Pal. jenkinsi "Solid"! Millions!Same locality but further inland
as I & C.E.O. 14.9.11.*Helix aspersa*" *cantiana*" *rigata**Lim. pumila*

See full list p.

also Vol. 1. p.

(340)

L. palustris" *stagnalis**Physa fontinalis**Planorbis cornu*" *unpunctata*" *contorta*" *reticulata*" *contorta**Segmentaria nitida*

Many white reported from here. Very got a few pale ones.

Common & large.

Abundant in the drain nearest stream
of lane leading under railway
1/2 mile north or west of station.*Bith. tentaculata**Valvata cristata**Sph. cornu*" *lacustris**Pisidium*

Common in places. [as I & as I] 15.9.11]

(341)

Marsh beyond Smith Mallory
(1st visit, see p. 54.), Lower, F.S.
and, R.W., E. Collier, C. E. W. & L. E. A.

Agrio. apertis

Hyalinae ullae

" *nitidula*

Jm. nitida

Helix rotundata

" *lirpida*

" *rufescens*

" *cautiana*

" *arbutum*

In nettle along wooded bank of
marsh. Splendid ground!

" *hortensis*

" *nemorali*

" *aspera*

" *virgata*

" *intersecta*

" *liripensis*

= *capitata* Mont. R. Brown.

In hedge of lane leading
to the marsh.

Col. tubicula

Puccin. patris

Rare.

" *puffei*

Lim. puer

" *palustri*

" *stagnalis*

Physa fontinalis

Planorbis albus

" *umbilicata*

" *montana*

" *nitida*

" *contorta*

" *fontana*

Bith. tentaculata

Voluta cristata Common

" *macrostoma*

" *piscinalis*

Not apparently caring much for each
other company, but certainly
associated in one or two drains,
or rather part of one drain, that
parallel with the road & "wood".
A few odd specimens. Very large.

Pal. jenkinsi

Gelostoma ely

Sph. cornu

Pindia

"

(342)

missing

66.

Marsh between Steyning & Bramble (1)
and the Moat of Bramble Castle.
West Sussex. ASD, RW & CEU. 15.9.11.

Agrio. apertis 2
Arim. circumscripta 2
Vitum pellucida 2
Hyalin. cellaris 1+2
" nitidula 1+2
" pura. 2
Helix retundata 1+2
" pulchella 1.
" limpidula 1+2.
" rufescens 1+2.
" cantuariensis 1+2.
" hortensis 1+2.
" nemoralis 1+2
" arbustorum 2
" aspersa. 1+2
" virgata 1+2
" intermedia = capitata Mont. 2.
" herpessens 1

Coch. lubrica. 1+2.

67.

Carychis mini 2.

Pupa recalc 2.

Clavistylis laminalis 2.

" *rolphi* 2.

" *fidistata* 2+1.

Era obscura 2.

Cyclotoma elegans 2.

Limnaea peregrina

" *palustris*

" *stagnalis*

Planorbis cornu Dead.

" *umbilicatus*

" *contorta*.

Vaheria pinnulata

Bitt. tentaculata

Pal. juncivora

Ph. cornu.

Pisidium nitidum On Caddis larva. (343)
Juncus.

Horsham, West Sussex.
A.S. & C.E.O. 16.9.11.

Helix aspersa
Lima peryna
" *palustris*
Physa fontinalis
Planorbis albus
" *carinatus*
" *contortus*
Voluta piscinalis
Sph. cornu
Pis. amnicus
" *subtruncatus*
" *nilius*.

344

The White Downs, Dorken & Rammer Comm.
Sussex. A.S. & C.E.O. 16.9.11

Arion intermedius
Vitrea pellucida
Hyalina cellaris
" *nitidula*
" *rogersi*.

Hy. pura.

Helix retundata

" *lispida*

" *rufescens*

" *canthiana*

" *virgata*

" *intertexta* = *capitata*, Mont.

" *itala*.

" *hortensis*

" *neurolepis*

" *aspersa*.

" *promatensis*.

Several alms among by grass
& scrub. Hudders first
by fire in field above
railway, below Denton.

Coch. lukina

Carychium

Clausilia pidentata

Eux obesa

Gyrostoma elegans

See also Vol. I p.

C. acicula

A. tridens (1908)

Castle Mill, Riv. Mole, Dorset
 July. 16. 9. 11.

Lemna perpus

" *auriculata*

Aradonta ygre (C.E.U.).

In mill dam

Ambury, Bury & Bignor, West Sussex
 A.S. RW, L.E.A. & C.E.U. 17. 9. 11

(1) Ambury - Bury. Marshes &c.

(2) Bury - Bignor. Roadsides &c.

(3) Bignor - Sutton Downs & Roadsides.

Agrio-lacris (1)

Arim intermedi 3.

" *circumscripta* 2.

Vitrea pallucla 2+3.

Hyalina cellaria 2+3.

" *nitida* 2+3.

" *crystalina* 1.

Jm. nitida 1.

E. fulva 1. Some very large specimen.

Helix stans 2+3.

" *pulchella* 1.

Helix hispida 2+3.

" *rufescens* 1, 2+3.

" *cantharus* 1, 2+3.

" *hortensis* 1, 2+3.

" *nemorialis* 2+3. Many dead shells.

" *arbutum* 2+3.

" *aspera* 1, 2+3.

" *obsoleta* 3. Several alive & some dead in
 my old Lakat Street Sutton
 & the Downs in deep lane.
 The plant association is ash,
 Maple, Hazel, Thorn, Bramble,
 Ivy &c. But no heath is near
 the spot. See vol. 1, pp. 168.

" *virgata* 1, 2+3

" *intersecta* = *capitata* N. 2+3.

" *herpessensis* N. 2.

" *itala* 3. Dead in downs.

Coch. lubrica 1, 2+3.

Carychi. mini 1+2.

Vertigo antistylis 1.

Pap. murex N. Down above
 Bury.

Amberley continued.

- Clavella rophi* 2+3.
 " *identata* 2+3.
 " *laminata* 2+3.
Eua obscura 2+3.
Scinia patini 1.
 " *pfeifferi* 1.
Limnaea peregrina 1.
 " *auriculacea* 1. A form approaching var. *acuta*. Not passed as *L. auriculacea* by the rest of the party (L. E. Adams in particular) but they don't know the shell identity as there is no mistaking the young example of which I saw hundreds with the grey of *L. peregrina*.
 " *stagnalis* 1.
 " *palustris* 1.
 " *truncatula* 1+2.
Physa fontinalis 1.
Planorbis cornu 1.
 " *uniplicatus* 1.
 " *carinatus* 1.
 " *rotax* 1.

- Pl. spinosa* 1.
 " *alba* 1.
 " *fontana* 1.
 " *contorta* 1.
Valvata cristata 1.
 " *piscinaria* 1.
Bith. tentaculata 1.
Cyclotoma elegans 2+3.
Paludina vivipara 1. Common in river.
Vermetus flammula 1. " " "
Pal. confusa 1. A few in large drain which flows from Bury past the church into the Arun, under grass & on bank of same slightly above high water. All very young. Evidently the wrong time of year. Also one dead one in typical habitat - (see above plate) further down the main stream.
Sph. cornu 1.
 " *lacustris* 1.
Pisidium
 " "
 " "

Hammer Pond, near Hurstley & Lea Park,
Surrey, ant. RW & C.E.W. 18.9.11.

Agria laevis.

Arim intermedi

Hyalin cellari

" *allian*

" *radiatula*

" *crystallu*

E. fulvus.

Jm. nitida

Helix rotundata

" *intersecta* = *capitata* Mont.

" *asperosa*.

" *nemorali*

Coch. lubrica

Carychium vivum

Vertigo antevortigo

" *pygmaea*

" (*modiciana*)

" (*substriata*)

Succinea putris

Lima palustris

" *truncatula*

1908-9. Now seen this year in old spot.
" Now seen.

Planorbis albus Red

" *contorta* ~~Red~~ Comm.

" *putris* RW.

Planorbis

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John = Lea Park Lake of RW.

L. stagnalis

Pl. putris

River Wey, above Guildford, Surrey.
ant. RW & C.E.W. 18.9.11.

Lima perymaea

" *auricularis*

" *palustris*

Physa fontinalis

Pl. carinata

" *umbilicata*

" *rotunda*

" *contorta*

C.E.W. Very doubtful, but it occurs at
Guildford. See vol. 1, p.

River Veg continued.

Vibrata pinnata

Pal. jenkinsi In the "pickwork" at work. Common
then in the 1st. p.

Bith. tentaculata

Paludina vivipara

Sph. communis

Anodonta cyanea

Psidium amnicum

" leucostomum

" cuprinum

" casertanum

With *P. jenkinsi*.

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Lea River, Braemar, ~~South Coast~~ North Coast
A.S. & R.W. 20.9.11

Limonium perezii

" staphylea

Phym. patula

Platanus alba

" carinata

" virens

Bith. tentaculata

" leachi

Sph. communis

Psidium

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END of Sept. Trip. 1911

Shore of Lakeland Lough, Manulla Junction,
East Mayo. A.S. & R.L.P. 11.11.11

Agris. apertus

" laevis

Milax. fagata

Arim. ater

" latensis

" circumscriptus

Hyalina nitidula

" radiatula

" crystallina

Purple + reticulated var.

Certainly native here.

Under limestone
boulders on the
shore of lake at
the old beach-
level.

Manulla Junctioni continued.

Helix rupestris
 " *hispida*..
 " *aspera*..
 " *italica*
Coch. lubrica
Carychium minus
Vertigo antistipes
 " *pygmaea*
Pupa cylindrica
Succinea Pfeifferi

Dead shells collected on lake shore in drift. Many shells derived from the underlying marl-beds.

Fontoides nitida. a few.
Succinea Pfeifferi. "
Limnaea peregrina Abundant
 " *palustris* Rare
 " *truncatula* Common
 " *stagnalis* frequent. a few little from like
 by *L. palustris*.

Planorbis alba Rare.
 " *contorta* Rare.

Valvata cristata Rare.

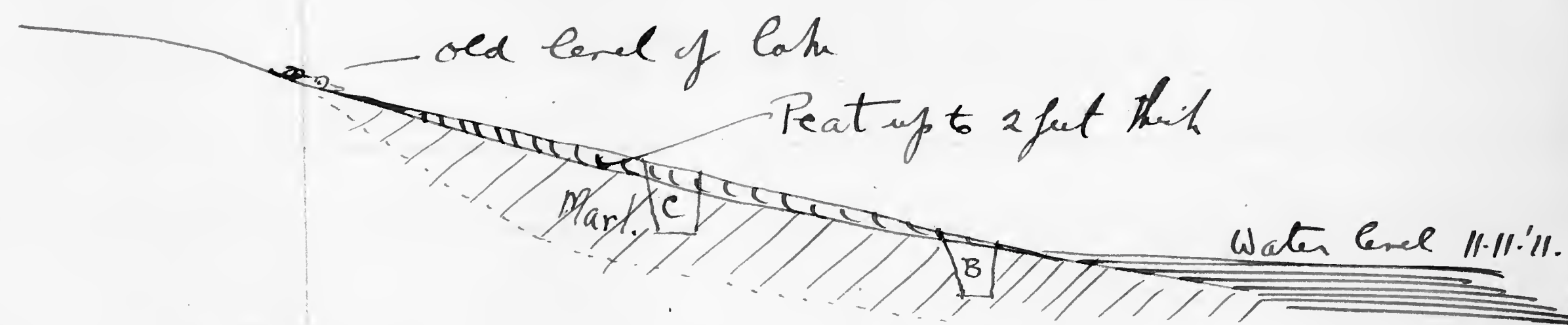
" *pirinalis* common.

Bitt. tentaculata Abundant.

Pisidium pusillum (not verified by B.B. U).

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Section of lake shore + marl-beds.



Two pits were dug + samples taken at various levels from each (see lists of species) but the depth of the marl was not ascertained. at C however it was certainly 9 feet deep.

Manulla continued

Secten B.

Sample from surface of marl. *Limnaea peregrina*,
Bithynia tentaculata,
Pisidium nitidum, ✓ (350)

Sample at 1-2 feet. *Limnaea peregrina*,
Bithynia tentaculata,
Pisidium nitidum ✓ (350 A)

Sample at 2-3 feet. *Limnaea peregrina*, *L. palustris*,
Bithynia tentaculata,
Pisidium nitidum. (350 B)

Sample at 3-4 feet. *Limnaea peregrina*,
Bithynia tentaculata,
Pisidium nitidum. (350 C)

Sample below four feet. *Limnaea peregrina*,
Bithynia tentaculata,
Pisidium nitidum. (350 D)

Secten C.

Sample at surface. *Limnaea peregrina*, *Cochlicopa lubrica* (1 sp. broken),
Bithynia tentaculata, *Valvata piscinalis* (2 sp.),
Pisidium nitidum (common), *P. obtusum* (350 E)

Samples at 1-2 feet. } *L. peregrina*, *B. tentaculata*, *V. piscinalis*,
 and 2-3 feet. } *P. nitidum*, *P. obtusum* (350 F)

Sample at 3-4 feet. *L. peregrina*, *B. tentaculata*,
P. nitidum. (350 G)

Sample at 4-5 feet. *Limnaea peregrina*, *L. stagnalis*,
Bithynia tentaculata, *Valvata cristata*,
Pisidium nitidum. (350 H)

[Note in tubes in collection samples from
 1 to 3 ft are labelled "3 ft".
 Those from 3-4 ft "4 ft" and those
 from 4 to 5 ft "5 ft". A.V.S. 1917.]

Colln glen, Belfort Hills, Antrim.
 ASD. 5.11.11. (Day of storm).

Agrio. agrestis

" *laevis*.

Arion ater.

" *suffusus*.

" *hortensis*. Certain native.

" *circumscriptus*.

" *intermedius*.

Vitrea pellucida.

Hyalina nitida.

" *alliana*.

" *pura*.

" *crystallina*.

" *fulva*.

Helix rotundata.

" *hispida*.

" *fusca*.

Coch. lubrica.

Carychium.

Pupa anglica.

" *cylindrica*.

Limonium truncatula.

Shore of Lough Neagh at Cranfield Church.
 Antrim. ASD + RW. 16.11.11.

Agrio. agrestis Purple & reticulate varietal forms.

" *laevis*.

Arion suffusus.

" *intermedius*.

" *circumscriptus*.

Vitrea pellucida.

Hyalina nitida.

" *pura*.

Jon. nitida.

Helix rotundata.

" *hispida*.

" *pygmaea*.

" *aspera* (In church-yard).

Coch. lubrica.

Carychium.

Vertigo pygmaea.

Planorbis pfeifferi.

Also *Planorbis rotundata* in flower-dam at
 Ferragh House.

Dickson's Nursery, Newtownards, Down.

as D. & N.H.F. 17.11.11.

Agriolacina (?) a grey brown form with dark blue tentacles.

Hyalina lucida. Very polished form & not one I have met with before. Animal rather paler than customary.

Lutulina octona Abundant in one old house next wall.

Near Coney Island, Killough, Down.

as D. 28.12.11.

(*Limnaea* acuta) (Audglen R. Station.)

Helix hispida

" *nemoralis*

" *aspera*

Pupa glabra

" *muscorum*

Alina.

} Hibernating.

Quite good ground but did not look for shells.

Hillhall Glen, Down.

as D. 30.12.11

Arim (ater) (?) Eggs abundant, .

" *circumscripta*

Vitrina pellucida.

Hyalina alba Var. *viridula*. In "million" dead.

" *pura*.

" *radiatula* var.

" *crystallina*.

Helix hispida

" *rotundata*

" *nemoralis*. "Central" form with undulating markings.

Coch. lubrica.

Clavella pidentata

Anagallis flavicollis

Season 1912.

Groganstown Glen, below Castle Rottin
Belfast Hills about 800 ft. alt. Autumn.
A.S. 21.1.12.

Agrio. laevis.

" agrestis.

Limax maximus

Arion hortensis

" circumscriptus

Vitrina pellucida.

Hyalina albiaria

" pura.

" crystallina 2 forms.

Helix rotundata

" nemoralis

" arbutorum

Coch. lubrica.

Clausilia bidentata

N.B. This valley is the head of
that in which the Lisburn
Water supply is stored.
Very good ground!

Two young shells of a beautiful dark colour.

Lagan Bank, Annadale, Down.

A.S. 28.1.12

Agrio. agrestis

Arion ater

" subfuscus

" intermedius

N.B. Opposite Boat Club

Annadale Continued.

A. hortensis.

Vitrina pellucida

Hyalina albiaria

" albiaria Dead.

" pura Dead.

" radiatula Var. viridula

Helix rotundata

" hispida

Coch. lubrica.

Clausilia bidentata

Vertigo pygmaea.

Limnaea peregrina

" truncatula

Pal. jenkinsi.

Several dead shells in field-pool two
fields on south of New Bridge at
Stranmillis. See vol. 1 p.

Nealough Glen, south of Purdyburn, Down.
 Aug. 10. 2. 12.

Arion subfuscus
 " *Lortensis*
 " *circumscriptus*
Vitrina pellucida
Hyalina cellaria
 " *alliana*
 " *nitidula*
 " *pura*
 " *crystallina*
Helix rotundata
 " *hispidula*
 " *remoralis*
Clausilia pidentata
Carychium
Ameglin flavicollis

Angledonagh Lough & Carrickmaunn Lough
 near Saintfield, Down. Aug. 24. 2. 12

Agrio-agrestis
 " *laevis*
Arion subfuscus
 " *intermedius*

Lake near Saintfield continued

Vitrina pellucida
Hyalina nitidula
 " *pura*
 " *radiatula*
 " *crystallina*
 " *fulva*
Helix rotundata
Vertigo pygmaea
 " *antivertigo*
Coch. lubrica
Clausilia pidentata
Carychium
Limnaea pereger
 " *truncatula*
Planorbis albus
 " *crista*
 " *glaber*
 " *costatus*
Valvata pinnatilis
Sphaerium corneum
Pygidium milium
 " *pulexellum*
 " *subtruncatum*
 " *obtusale*

Taken here in 1904 by A.W.S.

" " " " "

1904.

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White Rock Quarries, Black Mt., Belfast.
Antoni. Aug. 28. 2. 12

Agrio. agrestis.

Arion ater.

" *subfuscus*.

" *hortensis*

Some very queer bronze coloured specimen
with foot of yellow at front
& rear. Very like a hybrid form.

" *circumscriptus*

Vitrina pellucida

Hyalina cellaria

Dead.

" *albicans*

near bog on chalk outcrop.

" *nitidula*

" *pura*.

" *crystallina*

Helix rotundata

" *hispida*

" *memorabilis*

Coch. lubrica.

Carychium

Clavina pidentata

Balea perversa On chalk cliff, dead.

Purpura glandulosa & *Vertigo pygmaea*

White Rock Quarries + Windy Gap, Black Mt.
Belfast, Antoni. Aug. 6. 3. 12.

alt. about 600-700 ft.

Agrio. agrestis

" *laevis*

Arion hortensis

" *circumscriptus*

" *subfuscus*

Vitrina pellucida

Hyalina cellaria

" *albicans*

" *nitidula*

" *pura*

" *radiata*

" *crystallina*

" *fulva*.

Helix rotundata

" *pura*

" *hispida*

" *memorabilis*

Coch. lubrica

Carychium

Clavina pidentata

Very fine + common.

Sph. edentula

& *Balea perversa*

Main Water near Galgorm (Ballymena), Antrim.
 Aug. 4. 4. 12.

Agrio. agrestis
Arion ater Var. *bunnea*.
Vitrea pellucida
Hyalina nitidula
 " *alliana*
Helix rotundata
 " *hispidula*
Succinea pfeifferi
Lemnaea pergeri.
Planorbis albus
Valvata pinnata
Byth. tentaculata
Sph. cornu.
Pisidium subtruncatum, *pilula*, *nitidum*, and *hibernicum*

Coast from Cashedall to Loyde, Antrim.
 Aug. 4. 4. 12.

Agrio. agrestis
Arion ater.
 " *subfuscus*.
Vitrea pellucida

Loyde continued.
 In Loyde church yard. Common & fine.

Limonax maximus
Hyalina cellaria
 " *alliana*
 " *nitidula*
 " *para*.
 " *radiatula*
 " *crystallina*
Helix rotundata
 " *hispidula*
 " *rufescens*

Among rubbish thrown from Dobbs' house over cliffs.

Near end of road to sand.

" *pulchella*
 " *nemorata*.
Coch. lubrica.
Carychium
Clausilia pidentata
Pupa anglica
 " *cylindracea*
Sph. edentulum

Loyde glen below church.

Lurigethan, N.E. cliffs, Cuskendall
Antrim. Aug. 5. 4. 12.

1000ft alt.

Near ruined Lure at 300ft. alt.

700ft. alt.

1000ft. Var humosa 700ft alt.

Agrius agrestis

Lima maximus

" *arborum*

Arion ater

" *suffusus*

" *intermedius*

" *circumscriptus*

Vitrea pellucida 700 ft.

Hyalina alliana 1000ft.

" *nitida*

" *pura*

" *radiata*

" *crystallina*

" *fulva*

Helix rotundata

" *hispida*

" *memoralis*

Coch. lubrica 700 ft.

Carychium 700 ft.

Clausilia bidentata 1000ft.

Vertigo pygmaea 700ft.

Also *H. repens* on the only natural
outcrop of chalk over rocks
Cuskendall on the N. slope
of Lurigethan. Not at all the common
plentiful. This is the
print of its known range
in N.E. Ireland

Also *Acicula lineata*, 700ft.

Balea pumila, 300ft.

Near Waterfoot, Glenariff, Antrim.
Aug. 5. 4. 12.

Milax gagates

Arion ater

" *hortensis*

Above pier.

" *circumscriptus*

Hyalina nitida

" *crystallina*

Helix hispida

" *rotundata*

Nearly all white above pier.

" *pulex*

" *asperata*

Very common on both sides of road near pier and
below old Castle. One dead shell in sand
on golf links across river

" *memoralis*

" *aspera*

Dead near Waterfoot + near C.G. Station
+ dead in sand-hills at Golf Links.

Coch. lubrica

Carychium

Pupa cylindrica

Clausilia bidentata

Pisidium personatum

Under stones on wet slope above pier with

H. asperata

Glenallyonon, Cuskerdall.

Antrim. A.S. 6.4.12.

1. Near Waterfall at head of Glen.
2. In side glen on N.W. side of Vally
Opposite lime-kiln at Retreat.
3. Isbawn Valley.
4. Tievebullagh (east) cliffs up to 1,150 ft.

<i>Agris. apertus</i>	1-4.
<i>Arion ater</i>	1-4.
" <i>intermedius</i>	1-4.
" <i>circumscriptus</i>	1-3.
<i>Vibris. pellucida</i>	1-4.
<i>Hyalina alliana</i>	3 + 4.
" <i>nitida</i>	1-4.
" <i>pura</i>	1-4.
"	
" <i>crystallina</i>	1-4.
" <i>fulva</i>	1 + 3.
<i>Helix rotundata</i>	1-4.
" <i>liripida</i>	1-4.
" <i>fulva</i>	1 + 2.
" <i>astatum</i>	1 + 2. Nearly all yellow in No. 1 + all brown in No. 2.

Helix nemoralis 1-4. On the ^{basalt} cliffs of No. 4 + on the grass
slope below them there lives a race
quite like the alpine forms of the
Sligo Mts. Many specimens have
white lips.

<i>Coch. lubrica</i>	1-4.
<i>Carychium</i>	1-3.
<i>Clausilia bidentata</i>	1-4.
<i>Sph. edentata</i>	3.
<i>Angitia fluvialis</i>	1.

And clini Mountain, between Glenariff and Carnaby,
Antrim, A.S. 7.4.12.

1. Lough Ratallij, 1100 ft alt.

Lemnaea truncatula? (? *L. palustris* juv.)

Pisidium nitidum A.S. 1909.

" *lilljeborgi* A.S. 1909.

See also
p. 179
L. palustris
palustris

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Ardehan Mts. continued.

2. Lough na cally, 1050 ft. alt.

Psidium lillybryi ✓

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3. Lough Fine lower = Lough Fine!

No shells seen, but was prevented looking for any owing to fishermen.

4. Lough Fine Upper. = Lough No 3 as map.
Small lake SE of L. Fine

Psidium lillybryi ✓

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5. Lough No. 4. = Lough nambrick! AWS 1949.
1/3 of a mile NW of Little Troak
+ 1/8 of a mile N.E. of Lough Fad.

Psidium ~~obtusum~~ *libanicum* ✓
" ~~casertense~~ *lillybryi* ✓
" *nitidum* ✓

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Cliff of Glenariff at (Craguapat (800-900 ft.) Antrim.
A.W.S. 7.4.12.

Arum ater,

" *suffusum*.

Hyalenia alliana

" *nitidula*

" *para*.

Helix stundata

Pupa cylindrica

Dumnasole and farra Pt., Antrim.
A.W.S. 10.4.12.

Agrio-agrestis

Milax sowerbyi

The fine specimen under log in woods when
old road from Carnlogh to farra Tower ends
in wooden bridge across stream.

A most extraordinary record.

With *M. sowerbyi*.

Limax maximus

Arum ater

" *hortensis*

" *circumscripta*

Vitruia pellucida.

In glen below farra Tower near the Point.

Garra Pt. Continued.

Vitrea pellucida
Hyalina cellaria With *H. hortensis*
 " *alliarum*
 " *nitidula*
 " *pura*
 " *crystallina*
Helix rotundata
 " *hispida*
 " *fusca*
 " *rupestris*
 " *neurobi*
Coch. lubrica
Carychium
Clausilia pidentata
Pupa cylindrica

Small pool on summit of Cross Slieve
 between Cashendall & Cashendane.
 Aug. 10. 4. 12.

No shells seen.

Gallies
 Gallies above Milltown, Ardara, Antrim
 Aug. 11. 4. 12.

1. Small gully above old railway shed.
 2. Cusherill glen.
 3. Ardara glen.
Agriopoda 1-3.
Arion ater 1-3.
 " *subfuscus* 3.
 " *intermedius* 2.
 " *circumscriptus* 2.
Vitrea pellucida 1-3. One fine dead shell taken in No. 3.
 Very globose indeed.
Hyalina cellaria 1-3. Very fine shells in No. 2. One specimen
 measuring 17 or 18 m. m. in diameter. All dead.
 " *alliarum* 1.
 " *nitidula* 1-3. Var. *helix* common at head of No. 2.
 " *pura* 1-3.
 " *crystallina* 1-3.
 " *fusca* 2. Fine dead shells.
Helix rotundata 1-3.
 " *hispida* 1-3.
 " *fusca* 1-3.

Ardehina Continued.

Helix nemoralis 1+3.*" rufescens* 1-3.*Coch. lubrica* 1-3.*Carychium* 1-3*Clausilia pidentata* 1-3*Balea perrana* 1.*Sph. edentula**Pupa cytharata*

Glendun (South side), Antin.

Aug. 12. 4. 12.

*Agrio. apertus**" laevis* Near Viaduct.*Arion ater**" sulfureus**" intermedius* Very dark.*" hortensis* (?) Near Viaduct. Possibly former species.*Hyalina cellaria* One dead shell.*" alluvina**" nitida**" pura* Very common.*Hy. radiatula**" crystallina**" fubra**Helix retundata**" hispida* Very rare indeed.*" fusca* Near river.*Coch. lubrica**Carychium**Clausilia pidentata**Pupa cytharata**Acicula tenuis**Lemna pergeri*

A very small form - reddish brown near Viaduct.

Feddauanry, Glenariff, Antin.

Aug. 13. 4. 12.

*Agrio. apertus**Arion ater**" circumscriptus**Vitina pellucida**Hyalina alluvina*

Glenariff continued.

Hy. nitidula" *pura*." *crystallina**Helix retundata*" *hipida*" *fusca*." *neuralis*

Very abundant in the woods.

Coch. lubrica.*Carychium minus**Clausilia bidentata**Pupa cylindrica**Anagrus flaviventris**Aspilota lineata*

Garranure Glen near Jarrow Pt, Antim.

Oct. 14. 4. 12.

*Apri. aperti**Arion ater*" *suffusus*" *intermedius**Vitru-pellucida**Hyalina alba*" *nitidula*" *pura*" *crystallina*" *fusca*

Very fine dead shells.

Helix retundata" *superciliosa*" *hipida*" *fusca*." *neuralis**Coch. lubrica*.*Carychium minus**Clausilia bidentata**Pupa cylindrica*

End of Easter Holiday

1912.

Small lake near Monlough, Down.
 a.s. 26. 4. 12.

Linnæa peryæ
 " *palustris*
Planorbis albus
 " *contorta*
Pisidium milium
 "

(358)

Monlough, near Carriguff, Down.
 a.s. 26. 4. 12.

Linnæa peryæ
 " *auriculata* *One young shell. ✓ var. acuta, Jeff.*
 " *palustris*

Physa fontinalis
Planorbis albus

Planorbis glaber
 + *Ancylus laevis*

" *crusta*
 " *contorta*
Valvata pinnata
 " *crustacea*
Pisidium perillu

Pl. glaber

(359)

missing

Glencoe, near Larne, Antrim.
 a.s. 27. 4. 12.

Agrius apertus

Arion ater

" *hortensis*

Near ruined mill at Beltog.

" *crucians*

Rungill Glen. (= R.)

Vitrea pellucida

Hyalina nitidula

" *pura* R.

" *crystallina*

Helix rotundata R.

" *livida* Splendid shell in Glen at Rungill.

" *hemorali*

" *arbutorum* One dead shell at Rungill ~~Glencoe~~

Carychium

Clavus fiducialis

Glencoe, continued 10. 5. 12

A. arbutorum One alive at Rungill Glen. Miss M. I. Adams

A. lamellata Alive at Rungill Glen. R. J. Welch.

Pisidia from Lantry, Dublin collected
by A.W.S. 24-26-June 1904 &
identified by B.B. Woodward in 1912.

Pisidium suthruncatum, *P. casertanum*, *P. milium*
& *P. personatum*.

See report in I. Nat. 1907. p 42.

NB. *P. casertanum* & *P. personatum* B.B.W.
= *P. pusillum* *magrandi* & type of C. Redham.

Greenough, Louth. A.W.S. 25.5.12

Lemnaea pergeri } on golf links.
Pal. jenkinsi }
Pis. suthruncatum }
Helix nemoralis

" *aspera*
" *virgata*

Agri. apertis

Arion ater

up to 1000 ft on Carlingford Mt.

In ditch on north side of Canal between Moira St.
& the Broad Water. Antm. A.S. 28.5.12

Lemnaea pergeri

" *palustris*

Physa putrida

Planorbis carinatus

Valvata cristata

Bith. tentaculata

Sphaerium cornutum

Banks of +

In Canal itself between Moira and Aghalee,
including the Broad Water. Antm.
A.S. 28.5.12.

Agri. apertis

Arion ater

" *suffusus*

Hyalina cellaria

" *nitidula*

" *crystallina*

Helix hispida

" *nemoralis*

" *aspera*

Planorbis plicatella

Succinea pfeifferi

Lagan Canal & the Broad Water cont.

Anaglus fluvialis In stream feeding the Broad Water
Limnaea peregrina
 " *auricularia* Very common on stones of embankment
 near "flood gate" & on stems of
Butomus unguiculatus at west end
 of Broad Water. many white,
 small & var. acuta
 Rare. R. Welch. 6.7.12"

" *stagnalis*
 " *palustris*
Physa fontinalis
Planorbis carinatus
Valvata cristata
 " *piscinalis*
Bith. tentaculata
Sphaerium cornu
 " *lacustris*
Anodonta yzneri
Physa ~~mitis~~

No. 360

P. subtruncatum

Rise Lagan, Belvoir, Co. Down. Aug. 16.12

Limnaea stagnalis
 " *peregrina*
Physa fontinalis
Planorbis carinatus
Valvata piscinalis
Bith. tentaculata
Sph. cornu

Belvoir Park & Lough Pond, Down. Aug. 16.12

Agrio. apertus
Hyalina cristallina
Helix retundata
 " *camellata* Under trees west of Pond.
Clavella filicollata
Purpa anglica With *H. camellata*.
Acicula lineata With *H. camellata*.

In pond. *Limnaea peregrina*
 [*L. auricularia notata*]
Planorbis fontinalis
 " *carinatus*
Bith. tentaculata
Valvata cristata
Sphaerium cornu
Physa ~~mitis~~
Physa ~~mitis~~

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Royal Canal, Mayrally to Hill of Down,
Kildare and Meath. Aug. 11-6-12.

Agrio. apertis
Lima. flavum

Under a large stone near a lane but
not close to Limer.

Arion ater.

" *suffusus*.

Hyalina laevis

at base of railway bridge, Mayrally.

" *nitidula*

" *radiata* ?

" *crystallina*

Zon. nitida

Bank of River Boyne.

Helix retundata

" *pulchella*

" *costata*

" *hispidula*

" *infrum*

Mayrally Station.

" *aspera*

" *nemorata*

" *hortensis*

" *itala*

" *myata*

" *interata*

Correct! G.W.S. 1924
labelled "Boyne Aqueduct"
I think taken under same with
Succinea oblonga! G.W.S. 1924

Note Mayrally St.
in Kildare.
All the records are
for Meath.

Some very large sub-fossil in ditch.

Coch. lubrica

Pupa cythraea

Balea persura Mayrally St. walls.

Clausilia tidentata

Succinea fliffii

Limnaea peregrina

" *stagnalis*

" *palestin*

" *truncatula*

Asp. glutinosa

Physa putrida

Planorbis carinata

Vahata pinnata Very rare.

Orith. texturata

" *leachi*

The specimen above took at Mayrally, this
is the most western specimen I know of.

Vermetus fluvialis

Sphaerium comae

Cerithium amicum

} NB. No trace of *P. rntx* }
which is common at
Mullingar.

(312)

Marsh north of Royal Canal between
Moyrally & Boyne Aqueduct. Meath. and.
11.6.12.

Planorbis cornus Common, but mostly dead in shallow
drain in fields with *P. carinata*
& *Bitt. tentaculata*. This is well
within the drainage area of the Boyne.

" *carinata*
" *umbilicata*
Lemna pergeri
" *palustris*
Bitt. tentaculata
Pisidium pulchellum

Bank of River Boyne below Canal Aqueduct,
Meath. A. V. S. 11.6.12.

Lemna pergeri
" *palustris*
" *truncatula*
Puccinia otloga Common & some large specimens
" *psidippi* with *S. otloga* on stones along river bank
& on foundations of aqueduct.

Planorbis carinata
" *spiroth.* In marsh.
" *contorta* ?
Bitt. tentaculata
Valvata cristata
" *piscinalis*

In the small rivulets between canal & river
Boyne, Meath. A. V. S. 11.6.12.

Lemna pergeri
" *stagnalis*
Veronica fluvialis Very abundant but did not see it
in the Boyne.

East side of Dingle Harbour, S. Kerry.
A.U.S. 12. 6. 12.

Gt. Blasket. A.U.S. 13-16 June 1912.
S. Kerry.

North west cliffs. 13. 6. 12.

Limax cinereo-niger Pale yellow-brown ground colour with stripes.

Agriol. apertus North pale.

Milax pagoda Var. plumbea. Common.

Arion ater Type & Var. humilis & aterrimus.

" intermedius

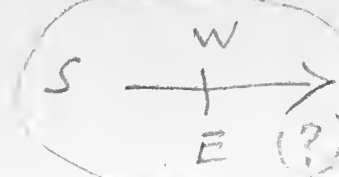
Hyalinia cellaria

" alliana

" radiatula

Helix stans

all published in Irish Naturalist
for Oct 1912



= excentrica! A.U.S. 1924
2 specimens!

H. pulchella

" remorali

" intertexta

Coch. lubrica

Carychium

Clausilia bidentata

Vertigo substriata

Purpura anglica

Harbour sand 14. 6. 12

Arion ater

Helix remorali

" aspera

" virgata

" itala

" intertexta

" lurida

Slieve Donagh, 7
937 ft.

x Foilbeg →

Habitat for *L. cinereo-niger* →
under stones in
foreground.

South east cliffs 13. 6. 12

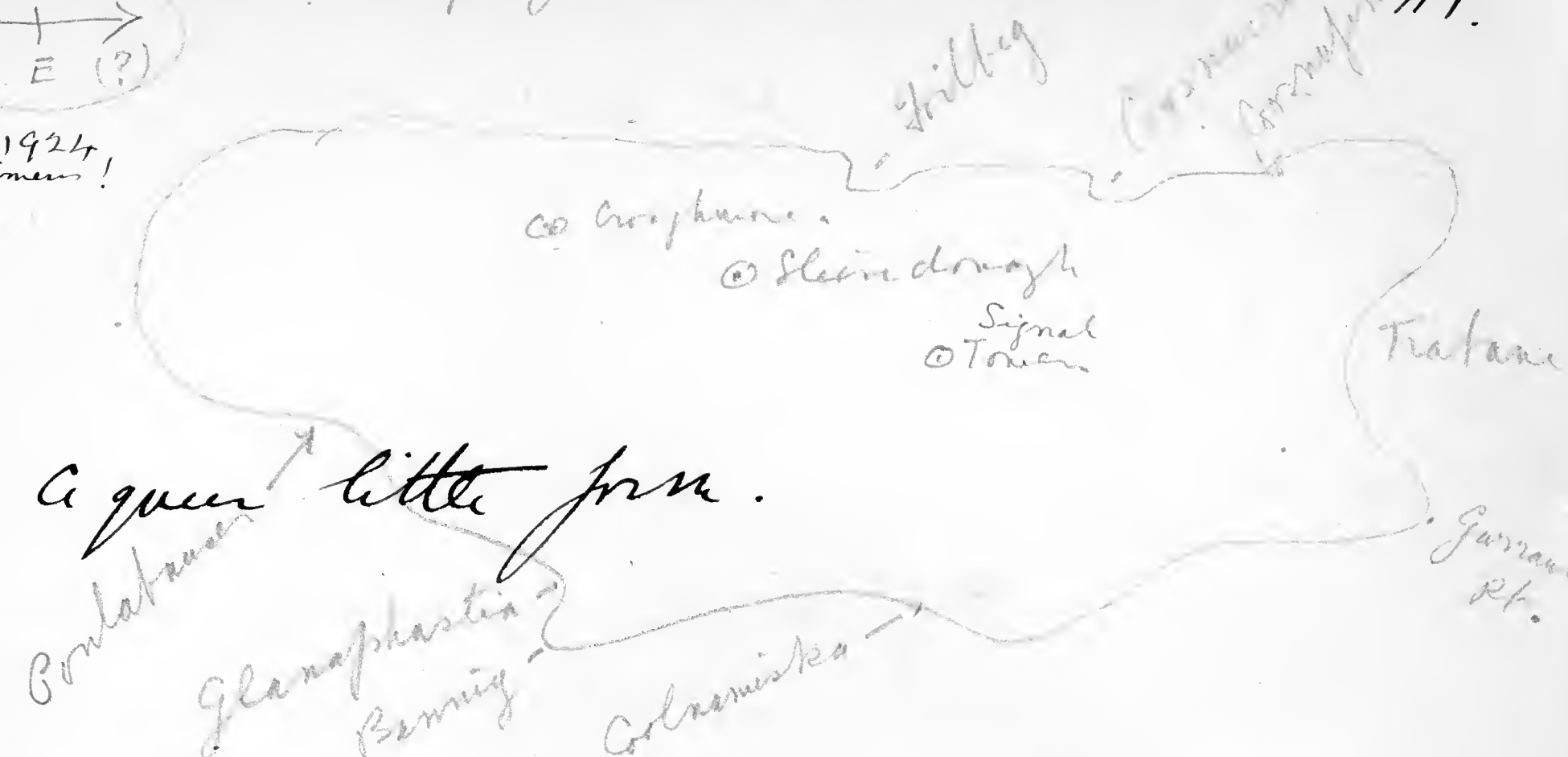
Arion ater

" subfuscus

Limax asper

In millions on the rocks at dusk.

Map of Gt. Blasket.



North cliffs of Gt. Blasket.
Terraced in distance.

St. Blasket
S.E. Cliffs continued.

Limax maximus A very fine specimen on the rocky slope $\frac{1}{2}$ mile from harbour. The first specim I have ever taken in "the west" which was clear nature. It was pale in colour with spots not stripes.

West End 1., High ground 2, Signal Tower 750 feet alt. 3, South Cliffs 4. 14.6.12

Agrio. apertis 1-4.
Limax c. niger 4. Similar to that on p. 116.
" *arbutum* 1, 2 + 4.
Vitrina pellucida 3. Dead shell only.
Hyalina albis 1-4.
" *nitidula* 2. Rare.
" *crystallina* 2 + 3.
Sph. edentulum 2.
Helix rotundata 1-4.
" *venusta* 1-4.

Carychium minus 4.

Coch. lubrica 1-4

Pupa cylindrica 1-4.

In the southern gullies. 15.6.12.

Limax arbutum

Agrio. apertis

Arion ater

" *suffusus*

" *intermedium*

Hyalina cellaria Large & dead.

" *albicans*

" *crystallina*

Helix rotundata

" *venusta*

Coch. lubrica.

Carychium minus

Pupa cylindrica

Clavus fidentatus



St. Blasket

In deposit on cliffs above sands.

Helix itala

15.6.12.

" *intermixta*

" *remorali*

" *aspera*.

" *barbata*.

Pupa cylindrica

Cost. lubrica

Hyalina cellaria

} None of any great age but
up to four or five feet thick
in some places.

North west cliffs & gullies. 16.6.12

Agrio. apertus

Arion ater

" *intermedius*

Hyalina cellaria

Veg abundant in some places.

" *albicoma*

" *nitidula*

" *pura*.

" *radiatula*

" *crystallina*

" *pura*.

Helix stans

Many all pale, some nearly white.

" *remorali*

Some large shells in the sheltered parts of
the cliffs.

Cost. lubrica

Also *Valoniola eximialis* (A.W.S. 1924) a specimen
See p. 117 ante!

Argyria

Chamaea bidentata

Pupa anglica

" *cylindrica*

Lemna truncatula

In millions on the wet rocks below the
only spring in the big gully (Foilbeg.)
evidently feeding on the alga

Cladophora crispata (Roth.) Kütz (C).
named by W. West.

Sybil Head on
Dingle Peninsula &

Caraghmore, 90 ft

N.W. cliffs

St. Blasket



Beginish (Little Blasket) South Kerry
A.O.S. 15.6.11.

Agrius apertus

Melospiza

Arion ater

" *suffusus*

" *intermedius*

Vitrea pellucida

One dead shell on N. coast.

Hyalina alba

Helix rotundata

" *pulchella*

West cliffs.

" *intertexta*

West cliffs.

" *aspera*

Million round old house.

Laurilia fiduciosa

N. cliffs rare except in one place.

Dunquin to Ventry, S. Kerry (mainland) A.S.

17.6.12

Lima arbutum

Arion ater

Helix aspersa

" *remorata*

" *virgata*

113. It was a very wet day & yet
there was no trace of *Geomacrus*
along the old road over the hill.

Gulleris and Kilnalkedan, S. Kerry
A.S. 18.6.12.

Lima arbutum

Arion ater

Hyalina alba

Helix remorata

Very large along main road to K. from Dingle.
one specimen 27 mm in diameter x.

" *aspera*

Walked up to Connor Hill from Dingle, round
L. Doon, next lake, L. Camclean & L. Adoon.
A.S. 19.6.12

Arion ater

up to 1750 feet.

Ameglin flaviventris

In Lough Doon & next lake

Pisidium

In lake next L. Doon.

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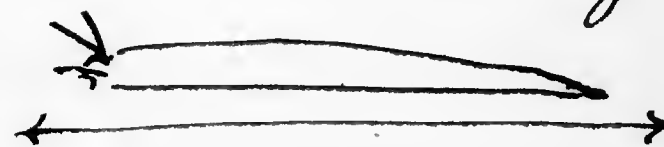
All lakes in flood & unworkable.
Ditto cliffs &c.

Walked up Coonaknock to Summit of Brandon
mt., & home via Pierasmore, Masation par,
& Pine Creek to Clapham. Aug. 20-6-12.

1/2 million to summit - 3,127 feet
at about 2,300 feet

Up to summit

What appeared to be L. c. niger juveniles
common up to summit. This may
have been the slug I recorded in
Proceedings R. I. A. XXIX (B) 75. 1911.

as Milax gajati but I cannot
 tell till I examine the animal
 which I have in spirit. If it
 is L. c. niger it is strange that
 all the specimens I saw the day
 were the same size 
 & that no full grown ones were seen
 although in the Blaskets I only saw
 full grown examples of this color.

Could it be "*L. arctum* var. *niger*" of
P. F. Schaff? See I. N. VIII, 214.

Crinia ater
" *suffusa*
Litoria arthra

11 7 2

Upon the occasion of my third visit
Sept. 19th. I sent some of those
giving a lamp to J. S. Johnson &
Dr. G. P. Baggett. The latter gave no different
than an anatomy of W. D. Bartsch named
the var. implied la. A. W. S.

No work done 21.6.12. Rained all day.

Rough Naparuka 1, Castlegrey Sandhills 2,
Shadally Marsh 3, Near Fermoy Ho 4.
S. Kerry. A.S. 22-6-12.

Agrio. apert. 3, 4.

" Caeni. 3.

Limax arboreus. 4.

Arion ater. 3, 4

4. *subsp. nov.* 4.

Vitrina pellucida # 2.

Hyalinia cellaria 4.

" radiatula 3.

" *crystallina* 3.

" Julia. 3.

J. nitida 3.

Helix puzosa 3,4.

11 *rotundata* 3, 4.

" *granulata* 3.

" *refers* 4.

Castlegregory - Clophane continued

- Helix pulchella* 3, 4
 " *costata* 4.
 " *itala* 1, 2, 3.
 " *intuscuta* 3.
 " *virgata* 1 Very local & only seen at one spot
 1/4 mile west of L. Naparuka. Probably
 common out at the point & on the
 machones.
 " *nemoralis* Fine runs on sandhills at 2. 1, 2, 3, 4.
 " *aspera*. 2, 3, 4.
Coch. lubrica. 3, 4.
Carychin mini 3, 4.
Clausilia bidentata 4.
Limnæa peregr 1, 3, 4.
 " *truncatula* 1, 3.
Succinea Pfeifferi 1, 3.
Planorbis spinosus 3.
 " *fontanus* 3.
 " *glaber*. 1. One dead shell in L. Naparuka.
 " *crista*
Pal. jenkinsi L. Long. Gill.
 " *stephensi*? 4.

Sphaerium cornu 3.

Psidium

"

"

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Vertigo pygmaea 3, 4.

" *antivertigo* 3.

" *angustior* 4. One under a stone on fringe of sand

Cypræa cylindrica 4.
 " *anglica* 3.

Shore from Clophane^① to Brandon^②, S. Kerry,
 and S. 23. 6. 12.

Limnaea arborea 1.

" *maxima* 1. In lane 1/4^{mile} from Clophane.

Agriol. agrestis

Anion ater

" *subpurpurea*.

Hyalina radiatula

Helix rotundata

" *lispida*

" *itala*

" *intuscuta*

Cloghane - Brandon continued

Helix nemoralis. 1. 2
 " *aspersa*. 1. 2
Coch. lubrica. 1. 2
Pupa cythraea 1.
Clavus fidetich 1.
Vertigo pygmaea 1.

Continued on 24. 6. 12.

Pupa muscorum In deposit on cliffs & alene on Lady's Pt.
Helix pulchella Lady's Island
Limnaea puzosii 1.
Helix pygmaea Near R. I. C. Barracks 1.

In deposit on mainland opposite
 Lady's Island

Hyalina radiatula. One typical recent (?) specimen.

Helix pulchella
 " *itala*
 " *intersecta*
Coch. lubrica
Pupa muscorum

And also several
 species of shells
Thracia, *Rissoia*, *Carthagenia*,
Littorina.

On Lady's Island (Inner, 1, & outer, 2,) 2 miles north
 of Cloghane. S. Kerry. Aug. 24. 6. 11.

Helix itala 1 + 2
 " *intersecta* Dead on 2.
 " *pulchella* 1.
Pupa cythraea 1 + 2.
 " *muscorum* 1 + 2.
Coch. lubrica 2.

Lady's island is a pair of
 small grass covered rocks
 with blown sand &
 some interesting plants ^{*Arabis hirsuta*}
 Its connection with the
 mainland - now limited
 to low-water period -
 appears to have been
 recent

On walls near Castle Gregory Rg. Station, S. Kerry
 Aug. 25. 6. 12.

Arion ater
Hyalina albiaria
 " *crystallina*
Helix nemoralis
 " *aspersa*.
Pupa cythraea
Balea ferruginea.

North of Mallow, East Cork.

Aug. 25. 6. 12.

Limax maximus.*Milax sovatzki*." *gagates*.*Arion ater*" *rufescens*" *hortensis**Hyalina lucida*" *cellaria**Helix rotundata*" *lucida*" *rustica*" *rufescens*" *nemorali*" *aspera*." *pulex*.*Coch. lubrica**Carychium**Clausilia pidentata*

Very bright orange colour.

Common on wall alongside railway 1½ out-
of town & on bridge over branch line
on old road ½ mile out of town.Several of these were also
taken in Mid Cork air on
railway & also
Arion circumscriptus*Pupa cylindrica**Succinea putris*" *psidippi**Limnaea peregrina*" *truncatula**Planorbis contorta**Physa putrida*

Mallow Castle, East Cork. Aug. 26. 6. 12.

*Agriolimax**Arion ater**Limax urbanus**Hyalina cellaria*" *cellaria**Helix rotundata*" *lucida*" *rufescens*" *nemorali*" *aspera**Coch. lubrica**Clausilia pidentata*

Up back hill.

& *Pupa cylindrica*.

B. N. F. C. Long Excursion 1912.

Clogher Head^② + Termonee^①, Lond.
 Aug. 12. 7. 12.

Agria. aperti
Limax arboreus 2.
 " *maximus* 2.

Milax sovatzki

Arion ater

" *suffusus*

" *circumscriptus*

Hydrobia cellana

" *nitidula*

" *crystallina*

Helix rotundata

" *hispida* 2

" *rufescens* 1

" *aspera*

" *nemorali* In thousands on the cliffs of Clogher Head.

Col. bistrata

Clavella bistrata

Pupa cylindrica

Note *Helix perversa* occurs from
 Ballyvaughan to near Clogher
 Head but time did not
 permit a visit to the
 fringe of sand-dunes.

Near Drogheda, Lond.
 Aug. 12-15, July 1912.

Agria. aperti

Arion ater

" *suffusus*

Hydrobia cellana

" *nitidula*

" *radiatula*

" *crystallina*

Helix rotundata

" *virgata*

" *intersecta*

" *rufescens*

" *hispida*

" *nemorali*

" *aspera*

Col. bistrata

Clavella bistrata

Pupa cylindrica

Succinea putris

[*fluviatilis* on north side of River at Drogheda]

Paludicola jenkinsi.

Byrne Valley & Bean Park^c from
Glane to Bean Park^c. Meath.
Aug. 13. 7. 12

Agria agrestis

Limax maximus

Milax sordidus In garden at Bean Park^c

Vitrea pellucida Dead.

Hyalina cellaria

" *alluvina*

" *nitidula*

" *pura*.

" *radiatula*

" *cystallina*

Helix retundata

" *livida*

" *rufescens*

" *hortensis* In garden at Bean Park.

" *nemorali*

" *aspera*.

Coch. lubrica

Carychium minimum

Clavus hirsutus

Cypripedium

Near Skomberg's house opposite obelisk

Temple demesne, Collon; South
Aug. 14. 7. 12.

Collected in woods at left hand side of entrance
at Collon. The oak in the wood is possibly
native, but all else is planted. I saw here
Spruce, Scotch Fir, Beech, Laurel, Sycamore.

Arion intermedius

Vitrea lividula

Hyalina alluvina

" *nitidula*

" *pura*.

" *cystallina*

All associated under dead leaves
& twigs with the mosses

(none got the names! A.W.S.)

(named by Rev. Canon Lett).

Opposite Mellifont Abbey, Meath.
Aug. 14. 7. 12.

Vitrea lividula

On bank of Mattock River
opposite the abbey. Several young
alive & dead shells.

Kells, Meath. Aug. 15. 7. 12

Apis. apertus
Arion ater
 " *suffusus*
 " *hortensis*
 " *intermedius*
 " *circumscriptus*
Hyalina cellaria
 " *alliana*
 " *crystallina*
Helix retundata
 " *hispidula*
 " *rufescens*
 " *rufescens*

on St. Columbkille's House & on
 grave stones in church-yard,
 on Carboniferous shale.
 & graveyard.

" *hortensis*
 " *remorata*
 " *aspera*
Coch. lubrica
Clavus identata
Pupa cylindracea

River Blackwater near Kells, Meath.
 Aug. 15. 7. 12

Lemna stagnalis
Succinea putris
 " *fluffei*
Physa putrida
Planorbis albus
 " *contorta*
 " *carinata*
Valvata piscinalis

Slernish & the old church of Skerry near
 Broughshane, Antrim, Aug. 18. 7. 12
 1 Slernish. 2. Skerry Ch.

Apis. apertus 1.
Arion ater 1 + 2.
 " *intermedius* 1
Hyalina alliana 1 + 2.
 " *nitidula* 1 + 2.
Helix retundata 2.
 " *hispidula* 1 + 2.
 " *hortensis* About 8 specimens alive & some dead shells
 (all types, 12345)

Flemish & Sherry Ch. continued
H. hortensis cont. inside the old church (2). This
 verifies the only Antvian record
 of "Flemish". See B.N.F.C. Proceedings
 vol. series, p. 19.

See also int. 1, 1907.
 Irish VII, 251, page 49
 ante.

H. nemoralis 1.
Coch. lubrica 1.
Clavus fidentatus 2.
Pupa cylindrica 2.

Limnaea peregrina. In small streams or rivulets on the
 north slope of Flemish at about
 800 feet alt. Also in old flax-
 dam below Sherry Ch.

Collected on the islet of rock which is
 to be reached at low tide opposite Woturn,
 near Millside, Down. A.S. Aug. 1912.

Pupa muscorum In thousands. None seen on the "mainland".

Vertigo pygmaea One specimen.

Collected on Craiglowry islet off Killybeg Pt.
 Down - A.S. & R.W. 27.8.12.
 The vegetation appeared to have been burnt during 1911.

Vitrina pellucida Common alive.
Helix nemoralis Dead shells only.
 " *fastuosa* One alive (R.W.) many dead.
Pupa muscorum Sparingly alive.
 " *cylindrica* Rather commoner than *P. muscorum*. Alive.

Clon Glen (upper), Ballyart Hills, Antvian.
 A.S. & H. Oreston. 31.8.12.

Agriol. agrestis
Limax arborum
Anis. ater
 " *suffusus*
 " *hortensis*
 " *circumscriptus*
Vitrina pellucida
Hyalina nitidula
 " *pygmaea*
 " *crystallina*
 " *fulva*.

Colin Glen continued

*Sph. edentata**Helix retundata*" *lispida*" *fusca*" *neurata*" *arbutum*" *lanceolata**Coch. lubrica**Carychium minus**Clausilia bidentata**Pupa anglica*" *cylindracea**Linnaea truncatula**Acicula lineata*

Very young only

Carris Glen, Ballyart Hill, Antrim.
as to H. Orenta. 4. 9. 12.*Agrio. apertus**Anon. ater*" *suffusus*" *intermedius**H. circumscripta**Vitruvia pallucida**Hyalina cellaria*" *albiana*" *nitidula*" *fusca*" *radiatula*" *crystallina*" *fulva**Helix retundata*" *lanceolata*" *neurata*" *arbutum*" *lispida*

Dead only.

*Coch. lubrica**Carychium minus**Clausilia bidentata**Pupa anglica**Carychium flavicollis**Sphyradina edentata*

Under stone at high-water, Grey Abbey
Down. Aug. 8-9-12.

Clavella fidetata

Helix rotundata

Pal. stagnalis In tidal area.

Rossmore Castle demesne, Monaghan.
Aug. 14-9-12

Tectacella sp.? Two young specimens in Palm House in
garden probably *T. laticostata*.
Introduced with plants. No doubt.

Agrio. apertis

Arion ater

" *suffusus*

" *hortensis*

Vitrina pellucida

Hyalina cellaria

" *alluvia*

" *nitidula*

" *radistula*

" *crystallina*

" *palustris*?

Ref seen in garden.

Aph. edentulum

Helix rotundata

" *lamellata*

" *hispida*

Coel. lubrica

Carychium min.

Clavella fidetata

Balen. perrusa

Pupa amphica

" *cylindrica*

Lemnaea palustris

Bitt. tentaculata

Sphaerium cornu

Pisidium sp.

In glen behind Lave. First record for
Monaghan.

an interesting form.

On white-bark (*Ulex europaeus*) R. Welch.

N.B. I had no time to work the
freshwater habitats, nor the
glen near the Mausoleum.

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missing.

Drumbo Glen, Belfort, Down
and. 21.9.12

Limex cinere-niger Two dark specimens referable to var.
One feeding on the fungus *Agaricus*
fragilior. First record for Down.

named by Canon H.W. Bell.

- Aprio. aperti*
- Anion ater*
- " *suffusum*.
- " *hortensii*
- " *circumscriptus*
- Hyalina cellaria*
- " *alliana*
- " *nitidula*
- " *pura*.
- " *crystallina*.
- " *fulva*.
- Helix rotundata*
- " *lamellata*
- " *hispida*
- Coch. lubrica*
- Carychium minus*
- Clausilia plicatula*
- Pupa anglica*.

Limnaea truncatula
Anemone phaeostictis
Acicula lineata var

700-1150 feet alt. on the northern escarpment
of Ben Bulbin, Derry. and. 22.9.12.

- Aprio. aperti* All brown form.
- Anion ater*
- " *suffusum* Very dark in colour.
- " *intermedium*
- " *circumscriptus*
- Vitrea pellucida*
- Hyalina alliana* All types. Very common.
- " *nitidula*
- " *pura*.
- " *crystallina*
- " *fulva*.
- Helix rotundata*
- " *hispida*
- " *fulva*.
- " *remorata*

No *Cochlicopa* seen.
Carychium see p. 157.

- Clausilia plicatula*
- Balea perroni*
- Pupa ybichacea*
- Acicula lineata*



Cliffs of
Ben Bulbin
Derry.

Howra House (= Corry's Glen), Hillsborough,
Co. Down. A.V.S. 12-10-12.

Limax arboreus.

Agriol. agrestis.

Arion ater.

" *hortensis*.

" *circumscriptus*.

Vitrina pellucida.

Hyalina cellaria.

In old house only & not seen in glen
... ? native.

" *alliarum*.

" *nitidula*.

" *pura*.

" *radiatula*.

" *crystallina*.

" *fulva*.

Helix stans.

" *lanellata* common.

" *renovata*.

Coch. lubrica.

Carychium minimum.

Clausilia subrotata One specimen dead.

Pupa cybini.

No. *Helix hispida* seen

Beach trees at Edenderry Gate, Shaw's Bridge,
Down. 26-10-12.

Limax arboreus Fine large pale coloured specimen
on trunks at 10.30 p.m. after
rain.

At 1400 feet on the east cliff of Agnes's Hill,
Larne, Antrim. A.S. 3-11-12.

Agriol. agrestis.

Arion ater.

See III, 175.

Vitrina pellucida.

Helix renovata. Dead shells, large, 00300 umbella.

Leroneys Glen, Drumbo, Down.
A.V.S. 2-11-12

Hyalina radiatula. } 2 folded *Pimpla* on south bank
Acicula lineata. } of stream near middle of
glen.

Struell, near Downpatrick,
Down. A. V. S. 26-12-12.

- Agrio. agrestis*
- Arion ater*.
- " *circumscriptus*
- Hyalina cellaria*
- " *alliana*
- " *nitidula*.
- " *crystallina*
- Helix rotundata*
- " *hispida*
- " *aspera*.
- Coch. lubrica*.
- Clausilia pidentata*

All in ruins of buildings
near the farm
Wells of Struell.

Crow Glen, Ballyart Hill, Antrim
A. V. S. 1-1-13.

- Agrio. agrestis*.
- Arion ater*.
- " *subfuscus*.
- " *intermedius*.
- " *hortensis*.
- " *circumscriptus*.

- Vitrea pellucida*.
- Hyalina alliana*.
- " *nitidula*
- " *radiatula*
- " *pura*.
- " *crystallina*
- Punctum pygmaum*
- Helix rotundata*
- " *hispida*
- " *neurole*
- " *arbutorum*
- Coch. lubrica*.
- Clausilia pidentata*
- Pupa cylindrica*

on moss above water fall.

The following were taken from the following species:
Arion ater
Agrio. agrestis
Hyalina alliana
Arion ater
Agrio. agrestis
Hyalina alliana
Punctum pygmaum
Helix rotundata
neurole

- Limnaea perna*
- Anagallis flaviventris*
- Ovicula ~~rotundata~~ ?*
- personatum*
- sp. ?*

I will save.

367

Upper Colic Glen, Bellport Hills,
Antonia. A.U.S. 22-1-13.

Agrio. agrestis.

Anis. ater.

" *suffusum.*

" *hortensis.*

Vithina pellucida

Hyalinia nitidula

" *pura.*

" *crystallina*

Helix rotundata

" *hiopida*

" *actustomum*

" *neurastis.*

Coch. lubrica.

Clausilia bidentata

Very wet day
& I did not
collect

Young, on south side of river.

Agrio. agrestis.

Linax maximus

Hyalinia pura.

Helix rotundata

" *hiopida*

Dumbo Glen, Down. A.U.S. 8-2-13

Several

the young specimens in dead tree.

& *Clausilia bidentata.*

Upper Colic Glen, Bellport Hills, Antonia.
A.U.S. 20-2-13.

Agrio. agrestis.

" *laeris*

Anis. ater

" *suffusum.*

" *hortensis.*

" *crystallina.*

Vithina pellucida.

Hyalinia allium

" *nitidula*

" *pura.*

" *crystallina*

Helix rotundata

" *hiopida*

" *pura.*

Cyathus minor

Clausilia bidentata

Very common on this day.
all young.

Many already dead.

Very fine.

Very wet today!
for shells!

Roadside near Dundoheld on old road
to Newtownards. Down - A.S. 23-2-13.

Agrio-areolaris
Arim subfusus Very
" *hortensis*.
" *circumscripta*
Vitruvia pellucida
Hyalina alliani Very dark brown shell.
" *nitidula*
" *crystallina*
Helix rotundata
" *hippida*
" *nervosa*
Coch. lubrica
Pupa cylindrica
Clavella bidentata

Drumbo Glen, in ruin of cottage 100 yards below fall.

Down. A.S. 1-3-13.

Lime arborum? Very. *Arim ater*, *Hyalina cellaria*.
H. crystallina, *Helix rotundata*, *H. hippida*,
Coch. lubrica, *Clavella bidentata*, *Pupa cylindrica*
and *Aicula luvata*. The last species was common under
large rock stones with the woodlice *Haplorthelmus nungii*.

Lerenge Glen, Drumbo. A.S. 8-3-13.
Down.

Near bottom of glen, dry bank facing south
from 2:6" to 8:0" above stream level.

Arim subfusus Very grey.

Vitruvia pellucida

Hyalina alliani

" *pura*.

" *crystallina*

Coch. lubrica.

Pupa cylindrica.

These shells were associated with the woodlice

Philoscia mucron + *Trichoniscus pusillus*
and with the following plants in

order of frequency: —

Fragaria vesicularis, *Corylus avellana*,

Ilex aquifolium, *Hypnum splendens*,

+ two other species of moss,

Stellaria holostea, *Lilla nantensis*,

Digitaria purpurea, *Orchis mascula*,

Taraxacum dens-lewisii, *Panemulus ficius*,

Athyrium filix-femina, *Viola* sp.,

Senecio jacobaea seedlings, and.

Oxalis acetosella, *Cerastium* sp.,

Leridge Glen, Dumfries, continued.

Same habitat but from water level
to 2-6' above water.

Agris. laevis.

" *agrestis.*

Vitrina pellucida

Arion rufipes.

Hyalina alba.

With the woodlice *Trichoniscus pusillus.*

common and *Porcellio scaber*, rare,

and the following plants:—

Fragaria vesca and the 2 mosses
for first association,

Cardamine hirsuta, *Ranunculus ficaria*,

Anemone nemorosa, *Taraxacum dens-lewis*,

two species of Umbelliferae,

Scilla nutans, *Arum maculatum*,

Oxalis acetosella, *Rumex* sp.,

Rubus sp., *Rosa canina*

and a grass.

Loyle Rock, Glen Donard,
and Donard Lodge, Woods, Newcastle,
Dumfries. A.D.S. 9.3.13.

Agris. agrestis

500ft.

Arion ater

1,750ft.

var. *brunner.*

500ft.

" *hortensis*

"

Limax ater

600ft.

var. *niger* (?)

1,750ft.

Hyalina alba

600ft.

" *crystallina*

500ft.

Helix rotundata

600ft.

Too strong in cliffs
to do any work.

The usual small alpine fauna
but not quite fresh.

EASTER TRIP 1913.

TOE Valley. LONDONDERRY.
A.W.S.

Keady Hill, Limerady, 21-3-13.

*Agris. agrestis**Hyalinea pura**Helix rotundata**" hispida**" nemoralis**Clavistia fidentata**Linnaea punctatula**Psidium* sp.?

368

all near chalk quarries
at 600-700 ft. alt.

Bank of River Roe at Limerady,

22-3-13.

*Agris. agrestis**Milax fagata**Arion hortensis**" suffusus**Helix rufescens*Var. rara.all perhaps derived
from rubbish thrown
out of town.a typical rubbish heap
association.

Tin cans dominant.

Benevenagh, 22-3-13.

I. Tamlaght Church.

II. " Woods, 25 ft alt.

III. Cliffs, 1000-1100 ft. alt.

IV. Lakelut, 25 ft alt.

Agris. agrestis 1, 2, 3.*Milax fagata* 1.*Arion ater* 1, 2, 3.*" suffusus* 1. ~~rara~~*" hortensis* 1 + 2.*" circumscripta* 3.*" intermedius* 3.*Vitrea pellucida* 3.*Hyalinea cellaria* 1.*" alluvia* 1, 2, + 3.*" nitidula* 3.*" pura* 2.*" crystallina* 2.*Sph. edentula* 2.*Helix rotundata* 1, 2, 3.*" hispida* 1, 2, 3.*" nemoralis* 1, 2, 3.*Carychium minutum* 2.also *Coch. lubrica* at 3.
on B.N.F.C. st. 13
13 May 13
at 4.

also.

Pupa glabra, 1, 2, 3.*Clavistia fidentata*, 1, 2, 3.*Linnaea punctata*, 1 + 4.*Planorbis contortus*, 4.(368A) *Psidium personatum* 4
under this date in coll.
but? taken on 13/5/22.
not separately in 1924 &
numbered 368A

Dunjiven Abbey + bank of river
 Row below same. As. 23-3-13¹³

Limax maximus

Palaemonetes pascuorum

" *arborum*

Very common

Agrius agrestis

Arion ater

" *hortensis*

In graveyard only, one specimen seen.

" *suffusus*

" *intermedius*

" *circumscriptus*

Vitula pellucida

Hydra cellaria

" *nitidula*

" *pura*

" *crystallina*

" *fulva*

Two specimens (P. Welch.)

Helix rotundata

" *hippida*

" *arborum*

In graveyard + on bank of river.

" *nemorali*

Pupa cylindrica

Clavella pidentata

Coch. lubrica

Caryophyllus minor

In fields below same abbey on
 afternoon of ~~next~~ ^{same} day, i.e. 24-3-13¹³

Hydra allia

" *radiata*

Vertigo pygmaea

Planorbis spiralis

Planorbis sp.

369

Benbradagh, Dunjiven.

Agrius agrestis

To 1400ft. alt.

As. 23-3-13.

" *laevis*

450ft.

In glen in Trias below cliffs.

Limax arborum

1400ft.

Arion ater

1400ft.

" *suffusus*

600ft.

" *hortensis*

1200ft.

in chalk quarry.

" *circumscriptus*

1200ft.

Hydra allia

450ft.

In glen.

" *nitidula*

450ft.

" *pura*

450ft.?

" *crystallina*

1200ft.

" *fulva*

450ft.

In glen.

Helix rotundata

1200ft.

" *hippida*

1200ft.

" *nemorali*

450ft.

Pupa cylindrica + *Coch. lubrica*. 1200ft. + 450ft. respectively.

Also *Psidium*
 probably taken in marshy ground
 with *Agrius laevis*. (369A.)

Banagher Glen, 4 miles south
of Dungiven. A.D. 24-3.13.
Common.

Linum catharticum

" *arvense*.

Agrostis alba.

" *canadensis*.

P. Selch.

Agrimonia eupatoria.

Colour rare.

" *suffruticosa*.

" *hortensis*.

Very common.

" *circumscripta*.

Vitruina pellucida.

Hyalina cellaria.

" *allianii*.

" *nitidula*.

" *pura*.

" *radistula*.

P. Selch.

" *crystallina*.

" *fulva*.

Panthera tigris.

Ph. edentula.

Helix rotundata.

" *hispida*.

A fine dark green on primitive
limestone by ford over
Glenish below Carnantane.

Helix fusca.

" *camellata*.

" *rennala*.

" *arbutum* Abundant on limestone at
ford over Glenish.

Coch. lubrica.

Corylus minima.

Clavaria pectinata.

Paspalum anglicum.

" *cylindricum*.

Acicula lineata.

In yard of hotel at Dungiven.

Linum flavum. ? Introduced.

Benady Glen, River Roe, A.D.
25-3-13.

Limey arboris

" *maxima*.

Aprio. apertus

" *laevis*.

Arion ater

" *suffusus*

" *intermedius*

" *circumscriptus*

Vitrea pellucida

Hypsin cellaria

" *alluvina*

V. rare.

" *nitidula*

" *pumila*.

" *radiatula*

" *fulva*.

Curat. pygmaea

Styl. chertulana

Helix stansdote

" *hispida*

" *lamellata*

on bank of river 1/2 mile above
Tannian Bridge, in scrub.

No. Arion hortensis on the
day.

Helix arbutus

Very common in scrub of river
above Tannian Bridge on
damp slope of glacial
lake deposit.

" *memorabilis*

Coch. lubrica

Carychium mini

Clavus dentatus

Bolus pumila

on stone wall of main road to
Belfast 3/4 mile east of R.C. Chapel.

Acicula lineata

Tannian Bridge + east

of Linnahilly.

Vertigo substriata

In both localities with *A. lineata*.

Pupa glabra

" *anglica*

Linnahilly

Limnaea pumila

" *pallidula*

" *truncatula*

Pisidium sp.

In field at Tannian Br.

370

Let. J. B. T. 1913

Sherryberry between Larne
& Ballymena, Antrim. A.S.

30-3-13.

D 20 → I

On Sherryberry at 900-1000 ft.

T 29 → II

By river in Glenwherry.

<i>Agrio. apertus</i>	1 + 2.
<i>Arion hortensis</i>	In fields above river.
" <i>circumscriptus</i>	2.
<i>Vitruia pellucida</i>	2.
<i>Hydrellia alba</i>	(?) 2.
" <i>pusa</i>	1 + 2.
" <i>crystallina</i>	1 + 2.
" <i>fulva</i>	2.
<i>Sphaerocentrus</i>	2.
<i>Helix stans</i>	1 + 2.
" <i>pusa</i>	1 + 2. Common on west side of hill. near plant of <i>Antrostaphylos Uva-ursi</i> .
<i>Coch. lubrica</i>	2.
<i>Caryocera minima</i>	2.
<i>Clavicornis fidentula</i>	2.
<i>Pupa of Hydrellia</i>	2.

Bottom of Rory's Glen, below Hightown
Larne, AN. A.S. 30-3-13.

<i>Agrio. apertus</i>	
<i>Arion circumscriptus</i>	
<i>Hydrellia cellaria</i>	
" <i>nitidula</i>	Dead.
" <i>pusa</i>	
" <i>crystallina</i>	
" <i>fulva</i>	
<i>Helix stans</i>	
" <i>hispida</i>	
" <i>pusa</i>	? young.
" <i>arbutum</i>	several dead shells.
" <i>memorata</i>	Dead.
<i>Coch. lubrica</i>	
<i>Clavicornis fidentula</i>	
<i>Angulus flaviventris</i>	

Plantation Port, Kintore, AN.
A.S. 12-4-13.

<i>Agrio. apertus</i>	
" <i>laevis</i>	
<i>Limnaea stagnalis</i>	V. common.
" <i>arbutum</i>	

Plantation Post, continued.

*Milax sagittata**Arisaema*Var aterrima & bicolor." subpurum." intermedium." circumscriptum.*Vitis pellucida**Hypoxis cellan.*" allian." nitidula." purum." crystallina.*Sp. edentata**Helix retundata*" hippida." pusca." nervaria." arbutum." asperum.

1 Dead

" itala.

Dead.

*Col. lupina**Corythoideus**Clematis integrifolia**Acicula brevis*
also occurs here.Also *Papa glidum*
& *Balea purum*.

Tox Head to Murlough Bay

AN. a.S. & P. W. 13-4-13.

I Tox Glen.

II Cliffs.

III Murlough Bay.

Agrostis 1, 2, 3." laevis 1.*Limonium* 1 + 2." arbutum 2.*Arisaema* 1, 2, 3. Var. humum 2." subpurum 1, 2, 3." intermedium 1 + 2. Mostly the grey form." hortum 1. rare at I, common at III." circumscriptum 1, 2, 3.*Vitis pellucida* 1, 2, 3.*Hypoxis cellan* 1, 2, 3. Large 'native' form." allian 1, 2, 3." nitidula 1, 2, 3. Along of var. helmi at I." pusca 1, 2, 3." radiata 1 + 2." crystallina 1, 2, 3." fulva 1 + 2.*Sp. edentata* 1.

Torr to Murlough continued.

Helix rotundata 1, 2, 3.

" *hirpida* 1, 2, 3.

" *arbutum* 1 + 3.

" *nemoralis* 1, 2, 3.

Coch. lubrica 1, 2, 3.

Carychium minimum 1, 2, 3.

Clamilla bidentata 1, 2, 3.

Bolus perversa 3.

Acicula lineata 1 + 2.

B.N.F.C. 50th Anniversary.

Giants' Ring. DO. 15th May.

Nothing collected but common stuff.

Newcastle + Flein Demand. DO. 12th May

Only remarkable things taken were

Anion ater var *atenuis*

" *rufescens* " *griseo-fusca*

Limex arbutum " *niger*

up to
2,500ft.

Beneringh, L.D. 13th May.
Nothing but what may be found on
p. 157, except *Cochleospa lubrica*
on cliffs (rare) + *Puridina* sp. in lakelet
at 250ft.

370

Giants' Causeway, AN. 14th May.

No addition to list of shells taken
on 1911 (see vol. II p.) except
Vertigo angustior 1 specimen alive + 1 dead
under log in Port niffer.

River Bush at Training Bridge, 14-5-13.

Limex pinguis

P. albus.

" *contortus*

Bith. tentaculata

Valvata piscinalis

unmistakable

Puridina nilivum " *thor*

" *subtruncata*?

No *Pleurostoma* seen
+ *P. latum* 1898.
P. carinata seen - July
" *cor*

P. albus was seen
but mistaken for
Val. cristata.
A.W.S.

372

Port Braddon end of Whitepark Bay,
AN. Ant. 15-5-13.

Agrius agrestis.
Arion hortensis Rare.

" *intermedius*
" *circumscriptus*

Vitruia pallidula

Hyalin cellaria

" *allian*

" *pura*

" *radiatula*

" *nitidula*

H. S. M.

" *crystallina*

" *pulra*

Spk. edentata

Helix reticulata

" *hispida*

" *pulchella*

" *costata*

" *venusta*

" *arbutorum*

H. Buxton.

" *aspera*

" *aculeata*

Quite common under small stones on
slope at famous 'dyke' in chalk.

Coch. lubrica

Carychium minus

Clavilix identata

Pupa anglica Many pure white.

" *cylicum*

Vertigo substriata

Chalk Stack below C.G. Station at
Ballintoy Harbour. AN. Ant. 15-5-13

All collected on grassy summit.

Hyalinia allian

Helix hispida

" *aculeata*

" *itala*

" *vulgata*

" *barbara*

" *pulchella* ?

" *venusta*

One beautiful ooooo umbello-umbellata.

Coch. lubrica

Pupa cylicum

Extreme point of Kinbane Hd.
A.N. A.S. 15-5-13.

<i>Agrio. apressi</i>	
<i>Hyatin allis</i>	Common.
" <i>crystallin</i>	Rare.
<i>Helix pulchella</i>	V. common.
" <i>costata</i>	Frequent.
" <i>neurolepis</i>	Dead.
" <i>itala</i>	a few.
<i>Coch. lubrica</i>	Abundant, all greenish-white form.
<i>Purp. muscum</i>	One specimen.
" <i>cylicum</i>	In millions, many var. <u>anconostoma</u> .
<i>Vertigo pygmaea</i>	One spec.

Ditto - ditto but on main lead, but
beyond castle.

Helix rotundata
Cl. bidentata
Vertigo pygmaea

Fair Head + Mullagh Bay.
G.W.S. 16-5-13.

No addition to list, but the following
Pisidia taken in lakes.

Lough na manoy.

Pisidia ~~*ottomata*~~
" ~~*sp.*~~ *nitidum*

373

Lough Sher.

Pisidia ~~*ottomata*~~.

374

Lough Fad.

? any.

375

missing.

Newry Canal, Newry
Co. Armagh. A.S. 31-5-13.

Limnaea peregrina

" *palustris*

Physa fontinalis In ditch only.

Planorbis carinatus

Bitt. tentaculata

Valvata cristata

" *piscinalis*

Pal. jenkinsi In miller's, but only below 10 ft
lock above town. Not seen
here in Feb. 1906. (See I p.)

Sphaerium cornu

Prisidium milium

" *nitidum*

" *subtruncatum*

Ver.
A.W.S.
25-12-17.

376

In cottage

In tank, &c in greenhouse of Smith
Nursery, Newry. A.S. 31-5-13.

Agrio. laevis, *Hyalin. cellarium*, *Arim. fortensis*

Sp. ?

Planorbis cornu,

P. carinatus, *Limnaea peregrina*, *Bitt. tentaculata*.

Agnew's Hill, AN.

1200-1400 ft. A.S. & D. Sea.

26-5-13.

Agrio. apertus

Calc. brown form.

Arim. ater

Var. aterrimus.

" *intermedius*

" *circumscriptus*

Hyalin. albus

" *nitidula*

" *crystallinus*

Helix retundata

" *renovata*

L. truncatula

In marsh at 1100 ft.

See III, 147.

Eshna Glogh, 900 ft. alt, Slieve Beigh.

Monaghan, A.S. & H.F. 8-6-13.

Agrio. apertus

Arim. intermedius

? Just out of egg.

Vitrina pellucida

Dead.

Hyalin. purpurea

Limnaea peregrina

" *truncatula*

Prisidium sp.

377

Roadside near Drumcaskie, MO.
 Aug. 8-6-13.

Limax arborum
Arion circumscriptus
Helix reticulata
Pupa cylindrica
Clavus plicatilis

Lagan Canal, Hills brought to
 Union Locks, ~~Down~~ ~~XXXX~~ Aug. 14-6-13.

Agriolimax agrestis
Arion ater
Hydrobia ulterius
" radiatilis
Helix reticulata
Succinea plicatilis
Limax peregrinus
" palustris
Physa fontinalis
Planorbis carinatus
Bitt. tentaculata
Ophacina cornuta
Anodonta cyanea [Aug. 1911.]

also
Pisidium

And on center side of Lagan
 at Lichen, Succinea plicatilis
 & Pisidium arborum

Drumcaskie Glen, Down.
 Aug. 21-6-13.

Limax c-niger a striped var. on north side of
 glen, 1/2 way up path leading
 to old road up to Levenage
 post rectory.

Cushendall & District, antrim.
 Aug. 11th-28th July, 1913.

Limax naevius
" arborum
Agriolimax agrestis
Philos. papilion
Arion ater
" suffusus
" hortensis
" circumscriptus
" interius
Ystrina peltoides
Hydrobia ulterius

Frequent.
 Common to 1200ft alt.
 " " "
 By shore only.
 C.
 C. Very dark form on Lurgethan
 up to 1100ft.
 Near Village only.
 Frequent.
 F.
 Dead.
 Frequent.

See also III pp. 92-105.

Cushendall district continued.

- Hy. allensis* c.
" nitidula rare.
" pumila f.
" radiatula Frequent in glens.
" crystallina c.
Helix rotundata c.
" rupestris At Farron + on Lurigethan.
" hispida c. Very fine below fall in Glentallygon, all full grown.
" asperata Red Bay Cart, by shore + in quarry.
" nemoralis f.
" aspersa Farron Pt.
" asperata Below fall in Glentallygon + in Triassic glen on n-west side of valley 1/2 mile below fall.
" fusca c.
Coch. lubrica c.
Pupa cylindrica c.
" anglica Glenariff.
Daurelia pidentata c.
Palaemon pumila At Farron Tower on old road wall.
Corydalis minima

- Limnaea truncatula* on shore below Laid Church.
" peregrina at 800 ft. alt. in outlet of L. Kattallig.
" palustris " " " also *Bis. courtanensis* (379A)
Planorbis cristata Under stone in L. Vicannon, 875 ft. alt.
Planorbis ~~crystallina~~ ^{probably *P. personatum*} in peaty soil at roots of plants at 1050 ft. behind Crochnavar.
" nitidum In L. Vicannon, 875 ft. alt.
(379) = *Planorbis* at roots of plants ---
(379A) = *Planorbis* in outlet of L. Kattallig.
(380) = " in L. Vicannon.

Notes. Effect of sea water on slugs

Agriolimax agrestis floated in sea water for nearly half an hour, but after that time it had sunk + was dead.

Milax pagus Also floated, but sank in fifteen minutes + was quite dead at end of twenty-five minutes.

Down.

Killough district, 2 S + R 15.

9th + 16th August, 1913.

- ① White Bog. 4. By sea by road
 ② Near By Station. village.
 ③ Strand Longh. (near).

<i>Agrio-arestin</i>	1 + 2 + 4.
<i>Arion ater</i>	" "
" <i>suffusus</i>	1.
" <i>circumscriptus</i>	2 + 4
" <i>intermedius</i>	2 + 4
<i>Hyalin cellum</i>	2 + 4
" <i>alliania</i>	1.
" <i>nitidula</i>	2 + 4.
" <i>pura</i>	2 + 4.
" <i>crystallina</i>	2.
" <i>fulva</i>	4.
<i>Sph. edentata</i>	2 + 4.
<i>Helix rotundata</i>	1 + 2 + 4
" <i>lispida</i>	2 + 4
" <i>aspera</i>	2 + 4
" <i>nemorali</i>	1 + 2 + 4
<i>Coch. lubrica</i>	1 + 2 + 4
<i>Carych. min.</i>	1 + 2 + 4

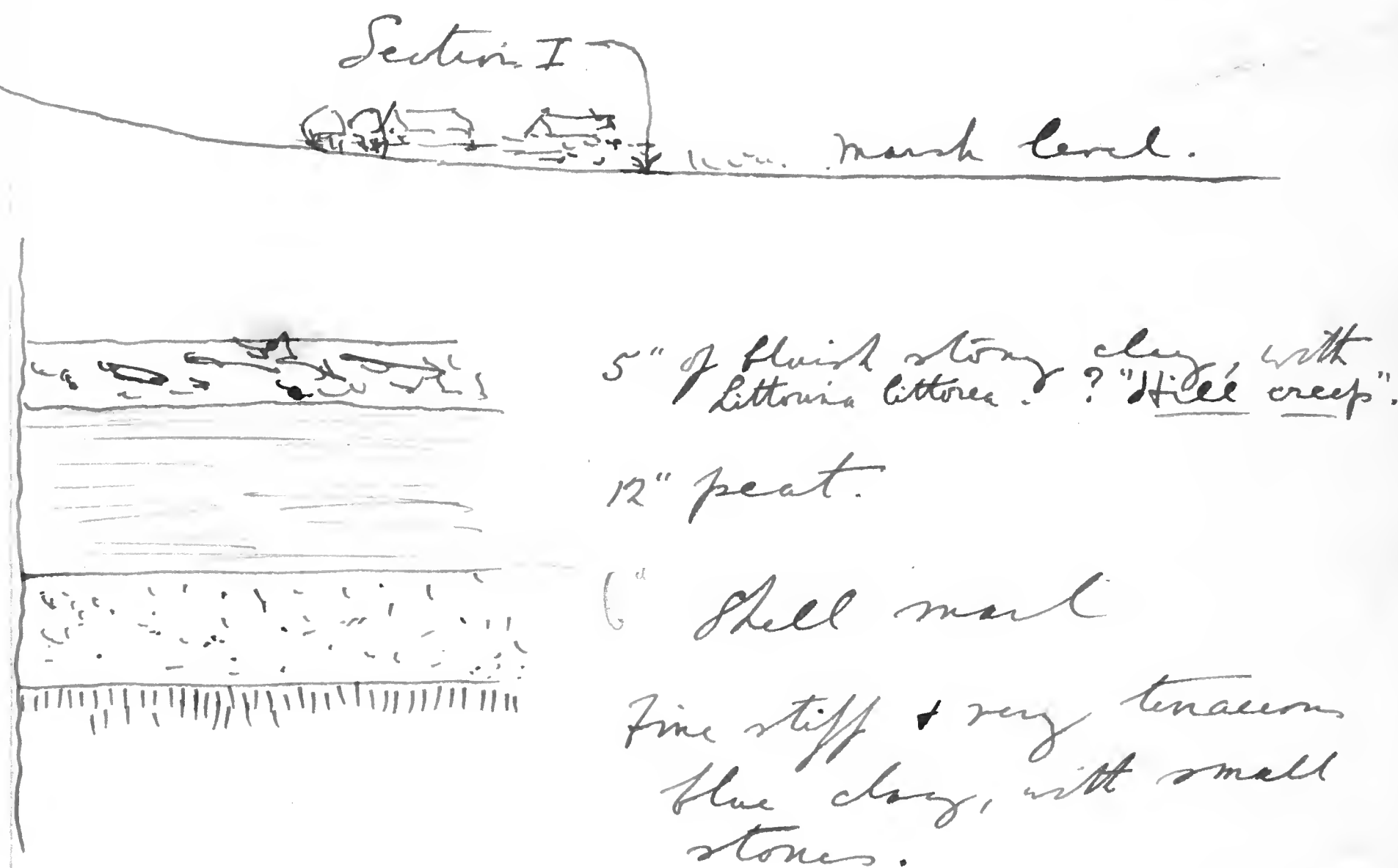
<i>Clavilex tidentata</i>	2 + 4.
<i>Balea pumosa</i>	In down on iron field wall on left of road leading to Dourpatrick.
<i>Pupa glidum</i>	2 + 4
" <i>anglica</i>	4. In many spots at foot of old gravel cliffs.
" <i>muscorum</i>	2. Under stones near an old stone yard near station on Dourpatrick road.
<i>Vertigo pygmaea</i>	2 + 4.
" <i>aculeata</i>	4. Not <i>P. anglica</i> . R. (Selch.)
<i>Limon perezii</i>	1 + 4.
" <i>palustris</i>	1 + 3
" <i>truncatula</i>	3.
<i>Aplecta hypnorum</i>	3. In down
<i>Physa fontinalis</i>	1.
<i>Planorbis carinatus</i>	1 + 3.
" <i>spurius</i>	3.
" <i>fontana</i>	1.
" <i>contorta</i>	1.
<i>Bith. tenebricola</i>	1.
<i>Pal. ventrosa</i>	3.
<i>Valvata cristata</i>	1.
" <i>proximalis</i>	3.
<i>Pisidium</i>	3.

Succession *Halleri* 123 common
 This does not include
 extent of *pal.*
 mud, see over.

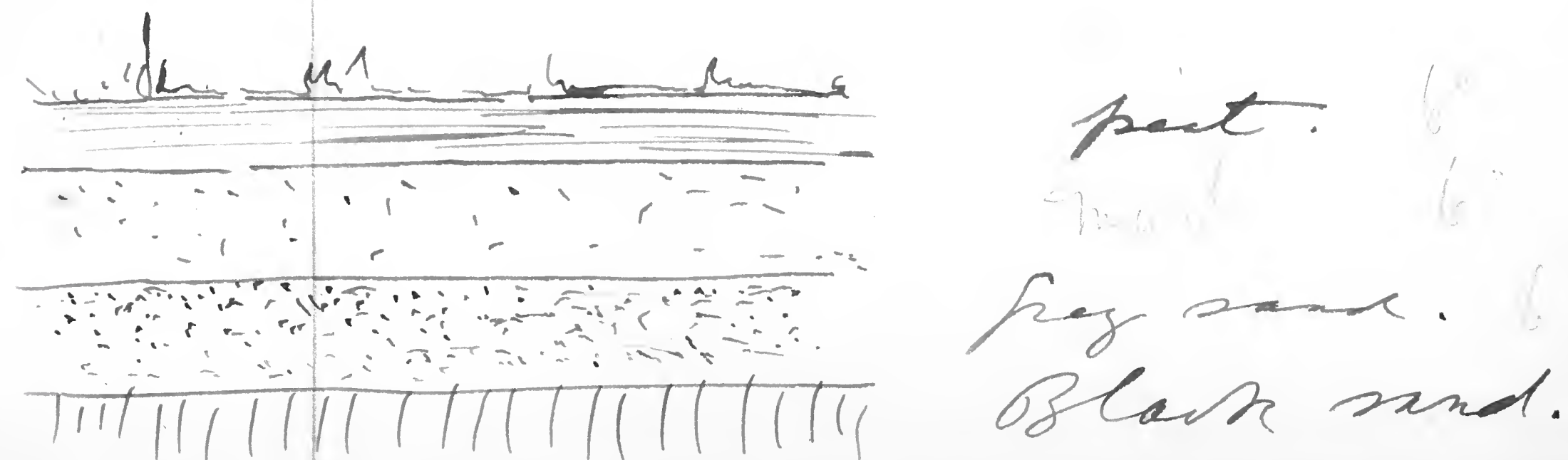
White Bog Marls.

near Killough, Down. A.S. 9.8.13.

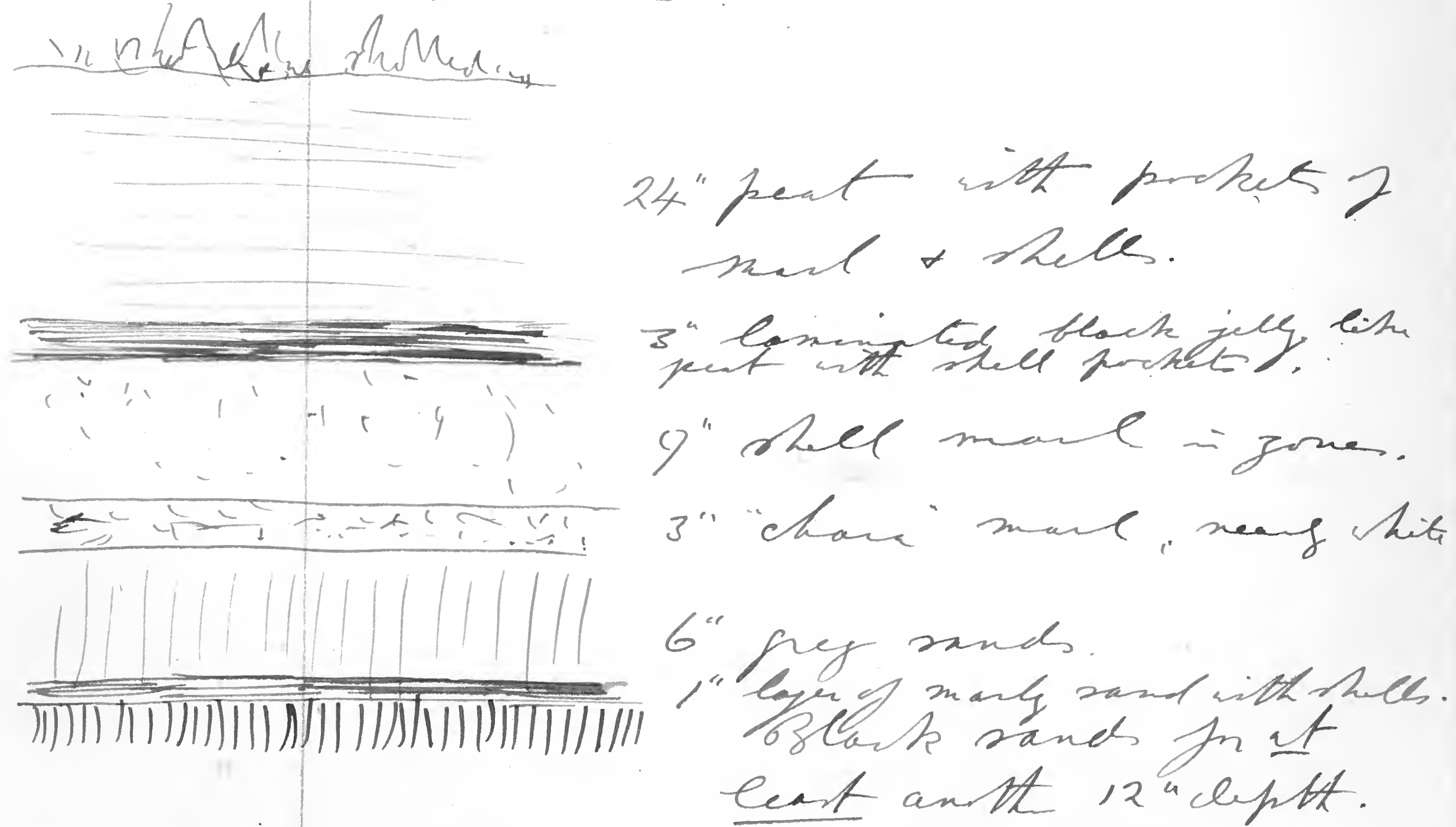
Section No. 1. dug on edge of old lake near farm.



A.S. & R. V. 16.8.13.
Section No. 2. dug in middle of marsh towards Killough end.



Section No. 3. Dug near side of marsh then No. 2.



List of shells from above:

Section No. 1.

Littorina littorea occurred in top layer, "Hill creep" (?). Probably brought with sea-weed to manure the fields.
No shells were seen in the peat.
From the shell marl came

White Bog, Marl, Killough, cont.
Specimen Sect. II. Chara marl.

Succinea pfeifferi. One specimen of a
very elegant form, but small.

Limnaea puegeti. Common.

Vertigo pygmaea. One specimen, large form.

Valvata piscinalis. One specimen but
no shells.

" cristata. Common.

Pisidium casertanum. B.B. V.

" nitidum. B.B. V.

" pusillum. B.B. V.

" tilligobryi. B.B. V.

" obtusum. B.B. V.

The overlying peat contained
no shells.

Section III.

Black sands.

The Black Sands appeared to
contain no shells.

But a passage bed between them
and the grey sands contained
Limnaea puegeti. Small form + not abundant.

Passage Bed 1"

Planorbis glaber. Common + large.

" crista. frequent.

Pisidium casertanum. A few large specimens.

" nitidum. Common.

" pusillum.

" tilligobryi.

" obtusum.

Shells were abundant in this passage bed
though none were seen in grey sands
above, but unfortunately this was not
brought home + worked.

Grey sands 5"

No shells seen!

Chara marl, 3"

Chara marl. Very few from vegetable
debris, picked + carefully washed.

White Bog, marsh, Killough, continued.
(Shore wall)

It contained

Linnæa pergeri. Abundant.

Planorbis glabra. One young specimen.

" crista. One juvenile.

Valvata cristata. Frequent.

Pisidium ~~obovatum~~

"

Shell wall, 9"

Shell wall, 9" deep, Very tough,
laminated, with much fine vegetable
debris. Very hard to work down.

Shells frequent. It contained

Linnæa pergeri. Common, occasionally
large.

Planorbis glabra. V. rare.

" crista. Rare.

Valvata cristata. Frequent.

Pisidium ~~obovatum~~

"

"

Lower peat 3"

Peaty layer, 3" deep, light brown, flaky
vegetable matter, with shells in
little pockets, thin out.
Proger says "

Contained.

Linnæa pergeri. Common & much larger
than in lower beds.

Valvata cristata. Common & some large

Pisidium ~~obovatum~~. Common.

"

"

"

"

"

"

Shore of Longh Neagh,
Lurgan Pump. St. to Kinnegoe Point, Armagh.
A.V.S. 20.8.13.

Agrio. laevis

Zon. nitidus 2nd st. for Armagh.

Succinea Pfeifferi.

" *putris* Kinnegoe.

Limnaea peregrina Var. *laevis* Leach, living -
shallow water on rocks at
Kinnegoe st. 3/4 grown. Therefore
it is not a deep water form.

" *palustris*

" *stagnalis* In hundreds near Pump. Station
in shallow dried up pools.
all var. *laevis* Studer.

" [*auriculata*] In drift from Kinnegoe Bay
collected by V. A. Green about
1908.

Physa fontinalis

Planorbis albus

" *carinata* Common in Lake & drains

" *umbilicata* One fine specimen in a drain.

Amplexus floridulus With *L. peregrina* var. *laevis*.

Bith. tentaculata.

Valvata pinnulata. Dead.

Pal. jenkinsii. A sandy patch at Pumping Station.
First record, other than for
plain at river mouth, in
Antonia & Blackwater, for
Longh Neagh.

Sph. cornu.

Pisidium amicum Dead.

"

"

" *milium*

"

Brown Bay to Portmuck,
Llandnager, Antonia.
A.V.S. 6-9-13.

Agrio. apertus

Anis. alba

Hyalina pumila

" *crystallina*

Islandmayer Continues.

Helix nemoralis" *hispida*" *terrestris*" *rotundata*" [*arbutorum*]

Terrestris Bay.

During August 1912, H. Overton of Birmingham, told me that he picked up a dead shell of *H. arbutorum* on one of the iron bridges of the Giblini Cliff Path. It had evidently fallen from the cliffs & had wedged itself between two of the bars.

Coch. lubrica

Chamae. nidulata. Very common under clumps of *Spergularia* sp. on rocks about at high-water level: no other vegetation but Lichens.

Vertigo pygmaea" *substriata**Purp. anglica*" *cyathina*.

Millisle, Donaghadee, Co. Down.

A.V.S. 21-9-13.

*Cyris-areolaris**Lima maximus**Arion ater*" *suffusus*." *hortensis*." *circumscriptus*.*Hydrobia ulina*" *crystallina*" *fulva*.*Helix rotundata*" *hispida*" *refusa*" *fulvicollis*." *aspersa*." *nemoralis*.*Ch. nidulata**Balanus perforatus**Purp. cylindrica**Carychium minimum**Coch. lubrica*.

Near Voturn. Introduced. ***.

Shore near Voturn.

Near cottages only. ***.

194.

Ards Peninsula, Down. E.W.S. 19-10-13

(1) Ballytrustan Old Church, Portaferry.

(2) Near Quinton Castle, on shore.

<i>Agrio. agrestis</i>	1.	
<i>Arion ater</i>	1.	
" <i>intermedius</i>	2.	
" <i>circumscriptus</i>	1.	
<i>Vitula pellucida</i>	2.	Dead.
<i>Hyalina cellaria</i>	2.	
" <i>alliarum</i>	1.	
" <i>crystallina</i>	2.	
<i>Helix rotundata</i>	1.	
" <i>palchella</i>	2.	
" <i>lispida</i>	1 + 2.	
" <i>aspera</i>	2.	
<i>Coch. lubrica</i>	1.	
<i>Pupa cylindrica</i>	1 + 2.	
<i>Vertigo pygmaea</i>	2	
<i>Clavilella viduata</i>	1.	

195.

Boj Meadow, Belfast, Antrim.

A.W.S. 26-10-13.

<i>Agrio. agrestis</i>
" <i>laevi</i>
<i>Limnaea peregrina</i>
" <i>palustris</i>
" <i>truncatula</i>
<i>Succinea pfeifferi</i>
<i>Planorbis contortus</i>
" <i>leucostoma</i>
<i>Aplecta hypnorum</i>
<i>Physa fontinalis</i>
<i>Valvata cristata</i>
<i>Sphaerium corneum</i>
<i>Planorbis milium</i>
" <i>caeretanum</i> ?
" <i>sp.</i>
" <i>sp.</i>

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Key J. C. S. S.

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Drumbo Glen, Dorri.

A. V. S. 1-11-13.

Agrio. apertus.
Arion subfuscus.
 " *circumscriptus*.
Vitruia pellucida.
Hyalina alluvina.
 " *nitidula*.
 " *pura*.
 " *crystallina*.
 " *fulva*.
Sph. edentulum.
Helix rotundata.
 " *livida*.
 [" *rufescens*.
 " *lamellata*.
 " *memoralis*.
Coch. lubrica.
Carychium minus.
Purp. anglica.
 " *cylindracea*.
Clavella viduata.
Anagallis flaviventris.

occurs in the Rectory garden. XXX

197.

Near Mayhemarm, Antwerp.

A. V. S. 21-12-13

- (1) Railway n. of Mayhemarm Station.
 (2) Harbor S. of Slyn Station.
 (3) Ruyll Glen, Glenoe.

<i>Agrio. apertus</i>	1-2-3.	
<i>Limax arborum</i>	3.	
<i>Arion ater</i>	2-3.	
" <i>hortensis</i>	1-2.	
" <i>circumscriptus</i>	1-2 + v. common at 3.	
<i>Vitruia pellucida</i>	Found at 2, also 1-3.	
<i>Hyalina alluvina</i>	1.	<i>Helix aspersa</i> . 1., XXX.
" <i>nitidula</i>	2-3.	" <i>memoralis</i> . 1-2-3.
" <i>pura</i>	1-2-3.	" <i>arborum</i> . 3. Dead
" <i>crystallina</i>	2-3.	<i>Coch. lubrica</i> . 1-2.
" <i>fulva</i>	2.	<i>Clavella viduata</i> . 1-2-3.
<i>Helix rotundata</i>	1-2-3.	<i>Carychium minus</i> . 3.
" <i>livida</i>	1-2-3.	<i>Balca perversa</i> . 3.
" <i>rufescens</i>	1. XXX.	<i>Vertigo pygmaea</i> . 1.
" <i>intersecta</i>	1. XXX.	<i>Purp. anglica</i> 1+2.
" <i>virgata</i>	1. XXX.	" <i>cylindracea</i> 1-2-3.
		<i>Lucina pfeifferi</i> . 2.
		<i>Paludetina ventrosa</i> . 2. Dead
		<i>Apleta hyporum</i> . A. V. S. at 2.
		Jan. 1906.
		<i>Prudus</i> sp. 2.
		" sp. 2. 385

Killanny, 4 miles west of Louth,
Co. Louth. A. V. S. 12-4-14.

Agrio. apertis c.
Arion atr. c.
" subfuscus. f.
" hortensis. f.
" circumscriptus c.
Vitrea pellucida
Hyalina cellaria
" pura. all var. nitidissima
" radiatula
" crystallina
Helix stans
" hispida
" nemoralis
" hortensis In ledges.
" aspersa In churchyard only. x x x
Coch. lubrica
Cyathina nivalis
Orpiza glindiana
Vertigo pygmaea.
Succinea putris By edge of drains
" Pfefferi " "

Limnaea puegeti.

" palustris

Physa fontinalis

Planorbis albus ?

" carinata

Bitt. tentaculata

Valvata cristata

" pinnatifida

Sph. corneum.

Pisidium milium

" obtusum

" pusillum ?

nitidum

In drains, or in drift of
river "Glyde" (tributary of)
above Killanny Mill.

Some seen about here P. H. Guerin
took *Pl. vortex* (see I. N.)

A. S. Kennard has the specimen
which I have seen: they are
typical *Pl. vortex*.

Near Carrickmacross, Monaghan.

G. V. S. 12-4-14.

(1) N.E. Corner of Lough Naglack R. Carb. Limestone.

(2) Small lake below Shercock R. Silurian. ~~XX~~*Agrius apertus* 1-2.*" laevis* 1-2.*Meloe fagat* 1 With *H. aspersa* & *H. rufescens* ~~XX~~.*Arion ater* 1-2.*" subfuscus* 1.*" hortensis* 11*" circumscriptus* 1-2.*" intermedius* 1.*Hydrotus cellarius* 1.*" nitidula* 1.*Helix rotundata* 1.*" ^{excelsa} pulchella* 1 = *ident. with H. excelsa*! G. V. S. 18/11/24*" hispida* 1.*" rufescens* 1. ~~XX~~.*" aspersa* 1. ~~XX~~.*Coch. lubrica* 1-2.*Pupa cylindrica* 1*Acanthia bidentata* 1*Succinea Pfeifferi* 1.*Limnaea pumilio* 1-2.*" stagnalis* 1.*" truncatula* 1.*Planorbis carinatus* 1.*" contorta* 1-2.*Bith. tentaculata* 1.*Valvata cristata* 1.*" pinnatifida* 1.*Sph. cornu* 1-2.*Pseudina* sp. *P. pumilio*? at 2. G. V. S. 18/11/24*" nitidum* ✓ G. V. S. 18/11/24 (387A)
found on Cadden. ~~case~~ ^{area}, which I believe to
have been taken at station 1.Virginia, Caran. G. V. S. & R. H. F. 12-4-14.
all on Silurian rocks.

1. Roadside E. of town.

2. Shore & C. of L. Ramor (Lough Ramor)

Limnaea maritima 2.*" arbutum* 2.*Agrius apertus* 2.*" laevis* 2. 1st record for Caran.

Virginia, Caran. continued.

- Arion ater* 2.
- " *subfuscus* 2.
- " *intermedius* 2.
- " *hortensis* 1.
- " *circumscriptus* 2.
- Vitrea pellucida* 2.
- Hyalina cellaria* 1. xxx.
- " *allioria* 2.
- " *nitidula* 2.
- " *pura* 2.
- " *crystallina* 2.
- Helix rotundata* 1-2.
- " *refersum* 1. xxx
- " *aspera* 1. xxx
- Coch. lubrica* 2.
- Pupa glandacea* 2.
- Limnaea palustris* 2
- Pisidium* 2

These were the only freshwater shells seen. The rejectamenta from lake contains no shell. Too early in season & too cold.

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Brackley Lough, S. of Swanlinbar, Caran.

G. V. S. & H. H. F. 13-4-44.

L. Erve basin.

- Limnaea maxium*
- Agria agrestis*
- Arion ater*
- " *hortensis*
- " *circumscriptus*
- Vitrea pellucida*
- Hyalina cellaria*
- " *allioria*
- " *nitidula*
- " *pura*
- " *crystallina*
- Helix rotundata*
- " *hispidula*
- " *refersum* xxx.
- " *remoralis*
- Coch. lubrica*
- Clausilia viduata*
- Pupa glandacea*
- Acrostus lacustris*
- Sph. corneum*

All in wood on n. side of lake by roadside.

xxx.

Dead in lake.

Shannon Pot, Caran.

A. V. S. & N. H. F. 13-4-14

Agrio. apertus" *laevis*.*Arion ater*" *intermedius*" *circumscriptus**Vitruia pallidula**Hyalina nitidula*" *pura*." *crystallina**Sph. edentulus**Helix rotundata*" *remorali**Pupa anglica*" *glabrata**C. laticornis**Agrylinus**Succinea Pfeifferi**Limnaea truncatula**Acicula lineata*

Dark grey & yellow forms.

Very common.

B. Almost all collected in the scrub-filled hollows n. of the "pot" where the underground river has carved a subterranean.

Further south there are extensive bits of scrub composed mainly of Holly, which might yield for *exarctus* & other good things.

Crucelea Abby and Drumahaire, Leitrim.

A. V. S. & N. H. F. 14-4-14.

(11) Crucelea Abby.

(12) Garden of Abby Hotel, Drumahaire.

(13) Roadside near Drumahaire.

1-2-3.

*Agrio. apertus**Limnaea maximum*" *flavus*" *arborum**Milax sovietzi**Arion ater*

1. An almost unicolorous variety.

Taken by party in old 'Castle' at Drumahaire - Sept. 1900. x x x

3.

2. Large & common. x x x.

1-2-3. At 1 var. *hannae*, *castanea*, "*pallida*" & "*grisea*" miki, were seen.

" *subfuscum*

1.

" *hortensis*

2.

" *circumscriptus*

1-2.

Hyalina cellana

1-2. Very fine at 2.

" *nitidula*

1-2.

" *crystallina*

1.

Helix rupestris

1.

" *rotundata*

1-2.

" *livida*1. A very neat '*sericea*, Drap.' form." *supremum*

1-2. Common at 2, seen at 1. x x x

Dunahair, Leitrim, continued

<i>Helix aspersa</i>	2. xxx.
" <i>nemoralis</i>	1-3.
<i>Coch. lubrica</i>	1-2.
<i>Pupa cylindrica</i>	1-2.
<i>Carychium minus</i>	1.
<i>Clausilia bidentata</i>	1.
<i>Balea perversa</i>	1. On walls with <i>C. bidentata</i> , <i>H. repens</i> , + <i>P. cylindrica</i> . A typical mural 'association'.

Lough Gill + Slisk Wood, Sligo.

G. V. S. + N. H. F. 14-4-14.

- (1) Gortlownan, 2 miles S.E. of Dunahair
 - (2) Traamore Bog, L. Gill.
 - (3) E. end of Slisk Wood.
- Nos. 2 + 3 are on Metamorphic Rocks
No. 1. on limestone. All in Sligo.

<i>Linnaea maritima</i>	1.
" <i>arvensis</i>	1-3.
<i>Agrostis agrostis</i>	1-2-3.
" <i>canina</i>	2.

<i>Arion ater</i>	1-2-3.
" <i>subfuscus</i>	
" <i>intermedius</i>	
" <i>hortensis</i>	
" <i>circumscriptus</i>	
<i>Hyalina cellaria</i>	1-2.
" <i>allema</i>	3.
" <i>nitidula</i>	1-3.
" <i>pura</i>	1-3.
" <i>radiata</i>	1-2.
" <i>crystallina</i>	1-2-3.
" <i>pubra</i>	1-2-3.
<i>Zon. excavata</i>	3.

3. The object of the day's excursion was to search for the shell which had hitherto never been found in the Sligo area. The specimen, type, was found near the close of the day's expedition, under a rotten stick by the little stream which flows into the small lake on the eastern edge of Slisk Wood. The species is no doubt frequent in the non-calcareous district.

L. fill + Slisk Wood, continues.
Slugs.

Helix rotundata 1-2-3.

" *hispida* 1-2.

" *camellata* 3. Common.

" *memorata* 1-2.

Coch. lubrica 1-2-3.

Carychium minus 1-2-3.

Clausilia bidentata 1-3.

{ A keen look out for *Cl. laminata*, which was
supposed to occur on Church Island, L. fill,
was kept, but it was not seen.

Vertigo pygmaea 1.

" *antivertigo* 2.

Sph. edentulum 1+3.

Purpura angulata 3+2.

" *cylindrum* 1-2-3.

Succinea putris In marsh between 1+2. Very large.

" *pfeifferi* 2.

Limnaea purpurea 2.

" *palustris* 2.

" *auriculata* In L. fill near Doonee Rock. July 1904.

[also *L. stagnalis*]

" *truncatula* 2.

Apleta hypnum

Planorbis glabra

" *contorta*

" [vortex

[*leucostoma*

[*fontana*

Bith. tentaculata

2. In old clay hole.

2 One in lake on 'moss' which grows
on stone in a fern in garden.

2.

Church Island, 1900. Doonee Rock 1904.

Pool near Doonee Rock 1904.

Doonee Rock, 1904.

2.

[*Meristina flavicollis*

[*Aradostia cyanea*

Church Island, Sept. 1900.

Church Island, Sept 1900. Doonee 1904.

Physidina rubra

2.

" *caerulescens*?

In dam near S. putris pond.

" sp.

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N. Shore of Dargan Lough, Castle Dargan,
4 miles east of Ballysadare, Sligo.
A.V.S. & M.H. Foster. 15-4-14.

Agria. agrestis
Arion ater
Vitrea pellucida D.
Hyalin cellaria
" *nitidula*.
" *radiata*.
" *crystallina*
Zon. nitida.
Idola rotundata
" *lispida*
" *memoralis*
" *aspera*.

Under stone on ditch with the woodlouse
Armadillidium pulchellum & looked
native.

Coch. lubrica
Carychium min
Cassidula fidentata
Purpura cylindrica
Succinea pfeifferi

This looks like *nitida*
the 'Owenmore' &
'Washin River' basin
& not L. Gill.
In this like *Sparta*
sponge:-

Limon pueyr
" *truncatula*
Physa fontinalis
Bitt. tentaculata
Valvata piscinalis
Sphæria cornu
Pisidium sp.

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Knocknave Glen, Sligo.

A.V.S. & M.H.F. 15-4-14.

Agria. agrestis
Arion ater

" *sutpura* In field near glen.
" *hortensii* Looks native, but see note on *H. rugosa* below.

" *cinnapha*
Hyalin cellaria N.N.N.
" *nitidula*
" *pura*.
" *crystallina*
" *fulva*.

Knocknaree Glen, Sligo, continued.

Sph. edentulum

Helix rotundata

" *lispida*

" *reflexum*

A large flat farm.
at the foot of the glen, where the ruins
of old cottages are, this shell was
common. As one ascended the
glen it became rarer. I think
therefore that it is xxx, without
doubt.

" *remoralis*

Coch. lubrica

Carychium minimum

Clausilia bidentata

Pupa asplasia

" *cylindrica*

Half way up the glen, on right hand side
according, we find a fine Kitchen Pudding
containing shells of oysters, cockles, limpets,
whelks & mussels.

Rosser Point, Sligo.

A. V. S. & J. H. F. 15-4-14.

All collected in or near largest lake.

Agrius agrotis

Arion ater

" *intermedius*

Limax arborum

Hydrobia cellaria

" *nitidula*

" *crystallina*

Helix perversa [1904]

" *rotundata*

" *lispida*

" *remoralis*

" *aspera* N.N.N.

Coch. lubrica

Carychium minimum

Clausilia bidentata

Pupa cylindrica

[*Acicula lineata* 1904]

Limax perversus

Planorbis alternus

" *contortus*

Also.

Bith. tentaculata

[*Sph. cornu* 1904]

Ballynamona Woods, on N. shore of L. Gill
 1/2 mile S. of Leitrim Boundary - Sligo.
 A.V.S. + N.H.F. 15-4-14.

Agrio. apertus
Arion ater
 " *hortensis* N.N.N.

" *circumscriptus*
Hyalinaria allianis
 " *nitidula*
 " *pura*.

" *crystallina*
Helix rotundata
Coch. lubrica.
Carychium minimum
Acanthis bidentata

Pupa anglica Common.
 " *cylindrica*

Acicula lineata Very common under rock stones, with
 the woodlouse *Haplorthalmus margini*.
 It was just getting dark & with
 these animals had evidently
 come out of their day-resting places
 for the evening. See p. 152, ante, for
 similar association.

South shore of Doon Lough, Leitrim.
 A.V.S. + N.H.F. 16-4-14.

This lake drains into Striff Bay, L. Gill.

Leuca, arborea
Agrio. apertus
 " *laevi*
Arion ater

" *subfuscus*
 " *intermedius*
 " *circumscriptus*

Hyalinaria allianis
 " *nitidula*
 " *pura*.

" *radiatula*
 " *crystallina*
Sph. edentula

Helix rapetina
 " *rotundata*
 " *hippida*
 " *remorata*

Coch. lubrica
Carychium minimum
Acanthis bidentata

Also.

Pupa anglica
 " *cylindrica*.

Succinea pfeifferi
Limnaea peregrina
 " *truncatula*.

Planorbis alba. D.
 " *contorta*. D.
 " *crista*. on middle case.
 " *fontana*. D.

Bitt. tentaculata.
Valvata piscinalis
Sphaerium cornu.
Pisidium ?

Glencar and Swin Valley, Leitrim.
A. W. S. & H. H. F. 16-4-14.

Agrius apertus
" *laevis*.
Linnaea artem.
Arisa athen.

" *subpallens*.

" *intermedia*

" *hermanni*

NNN.

" *circumscripta*

Hyalina cellaria

The usual large flat Irish form.

Specimen collected here by R. J. Veldt
in July 1904, has been named and
recorded by J. V. Taylor in his
monograph, vol. III, p. , as

Hyalina helvetica, Blum.

Why? food only known.

" *allearia*

" *nitidula*

" *pura*.

" *crystallina*

Helix rotundata

" *hippida*

A large flat form at the 'Waterfall'.

Helix arbutum

Dead shells common at bottom of
Swin Valley and at Waterfall.

" *juvca*

Bottom of Swin Valley. Very
large + 'heavy' shells.

" *conellata*

" *facilestia*

At the Waterfall, 1904.]

" *hemorali*

Common on cliffs above Swin Valley

One var. *vitringosa*, many white
lipped + large, and one dead very
like *Helix hortensis*.

Coch. lubrica

Carychium mini

Cassidula viduata

Pupa anglica

" *gland*

Anagallis fluitans

In last of shells

in Glencar

Lough. Le

I.N. Sept. 1904.

Gleniff and Annacoon, Ohio.

G. V. S. & N. H. F. 17-4-14.

	Max. height seen at
<i>Linum catharticum</i>	700 ft. alt.
<i>Agrostis agrestis</i>	1400.
<i>Arion ater</i>	1400.
" <i>subpressum</i>	1200.
" <i>circumscriptum</i>	700.
" <i>hortensis</i>	Near miners house only. xxx.
<i>Hyalinia cellaria</i>	1200.
" <i>alliarum</i>	700.
" <i>nitidula</i>	1000.
" <i>pura</i>	1200.
" <i>crystallina</i>	1400.
" <i>fulva</i>	1300.
<i>Helix reticulata</i>	1400.
" <i>reperita</i>	N. H. F. 600 ft. on talus.
" <i>hemorhina</i>	1400.
" <i>arbutorum</i>	1400.
" <i>livida</i>	In thousands all over grass slope up to entrance to 'Dermot & Francis' Bed' at 1400 ft. The large, flatish, form.
<i>Coch. lubrica</i>	1200.
<i>Carychium</i>	700.

Clavaria fidentata 1400.

Papa longica 1000.

" *cylindrica* 1200.

Glenade, Leitrim.

G. V. S. & N. H. F. 18-4-14.

(1) Lough shore at outlet.

(2) Cliffs west of lake to about 1000-1200 ft.

Linum catharticum 1.

" *maximum* 1. In wood.

Agrostis agrestis 1-2.

" *crani* 1.

Arion ater 1-2.

" *subpressum* 2.

" *intermedium* 2.

" *hortensis* 1.

" *circumscriptum* 1-2.

Trich. roseum. In bed of stream, by road, below Ewiff, n. of lake on road from Bundora. A very local colony, with the woodhouse *Trich. roseum*. Standing doubtful, xxx.

Glenade, Litterin, continued.

<i>Punctum pygmaeum</i>	1. In flood debris.
<i>Sph. edentatum</i>	1.
<i>Helix rupestris</i>	1-2.
" <i>retundata</i>	1-2.
" <i>hispida</i>	1-2. The usual form, with side umbilicus.
" <i>aculeata</i>	1.
" <i>lanceolata</i>	1.
" <i>remorata</i>	1-2.
" <i>arbutum</i>	2. Abundant on slopes below cliff above "Crevellea".
<i>Coch. labrica</i>	1-2.
<i>Carychium</i>	1-2.
<i>Bucca perversa</i>	N.H.F. 1.
<i>Clavella bidentata</i>	1-2.
<i>Purpura glacina</i>	1.
" <i>cylindrica</i>	1-2.
<i>Vertigo tilligobryi</i>	Only 2 dead shells seen at 1. In drift on lake shore.
<i>Succinea pfeifferi</i>	
<i>Anatula flavistella</i>	
<i>Acrotoma laurina</i>	Dead, common.

<i>Hyalina cellaria</i>	1-2
" <i>alliana</i>	1.
" <i>nitidula</i>	1-2.
" <i>pura</i>	1-2.
" <i>radiata</i>	1.
" <i>cythra</i>	1-2.
" <i>fulva</i>	1-2.
<i>Zon. nitidus</i>	1.
<i>Linnaea peregrina</i>	1
" <i>palustris</i>	1
" <i>stagnalis</i>	Dead. 1.
" <i>truncatula</i>	1.
<i>Physa fontinalis</i>	1.
<i>Applanata hypnum</i>	1. In drain by bridge over outlet. 1 st record for LE. (see p. 209 also.)
<i>Planorbis albus</i>	1
" <i>leucostoma</i>	1. With <i>a. hypnum</i> .
" <i>contorta</i>	1.
<i>Valvata piscinalis</i>	
<i>Bit. tentaculata</i>	
<i>Sph. cornu</i>	
<i>Pisidium nitidum</i>	?
" <i>sublineatum</i>	

In the lake
sponge: "

Poula-phona and Carrickmough, Dover
Long Is., Fermanagh.

A. V. S. & M. H. J. 19-4-14.

① Cliff of Poula-phona, 700-1000 ft.

② E. end shore of western quarry at
Carrickmough.

Agrio-egrotus 1-2.

Limon arbore 1-2.

Arion ater 1-2.

" *subpurpureus* 1.

" *hortorum* 2.

" *circumscriptus* 2.

Hyalinaria cellaria 2.

" *alluvialis* 1.

" *nitidula* 1-2.

" *pura* 1-2.

" *radiata* 2.

" *crystallina* 1-2.

" *fulva* 1.

Helix rotundata 1-2.

" *hippida* 1-2.

" *rufescens* 1.

xxx. Many planted shrubs
occur near by, with which it can
probably be imported.

H. lamellata 2.

" *memorata* 1-2.

" *arbutum* 1. Abundant on slopes below cliff,
& in gully, where a Basalt dyke has
weathered out.

Coch. lubrica 1-2.

Carychium 1-2.

Pupa anglica 1.

" *cylindrica* 1-2.

Clausilia laminata 2. In scrub near quarry.

" *bidentata* 1-2. Abundant in gully above mentioned.

Vertigo antioverta 2.

Succinea Pfeifferi 2.

" *oblonga* 2. Abundant in quarry.

Limon perya 2.

" *truncatula* 2.

Bith. tentaculata 2.

Sph. cornu 2.

END OF EASTER TRIP. 1914.

Donaghadee, Down.

G. V. S. 25-4-14.

L. maxim

On sea wall & breakwater behind station. An almost colourless form with pure white band down back, abundant at 4.30 AM, after rain. On station wall with above.

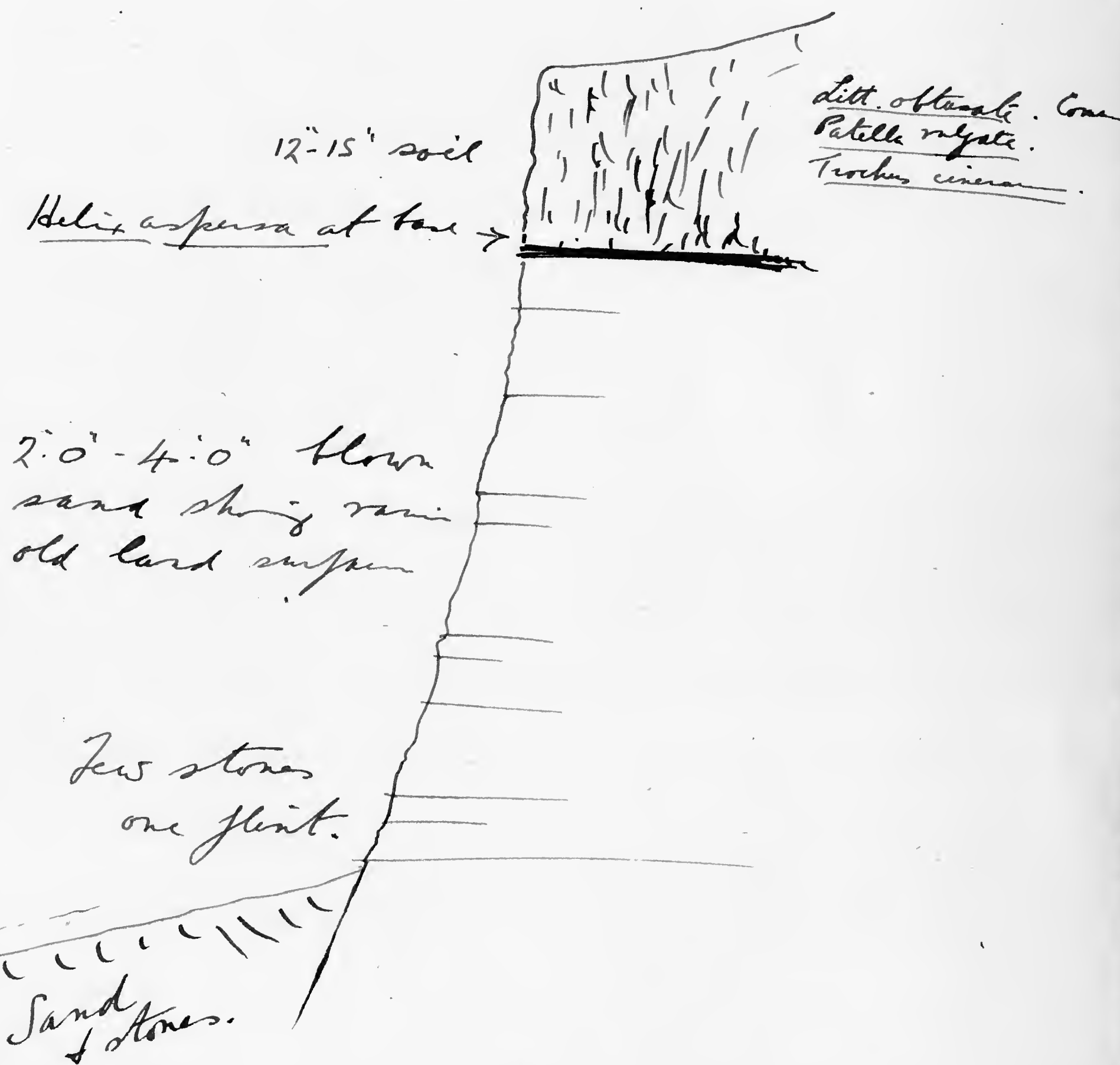
L. maxim

NOB

Then were collected on the night when the Ulster Volunteer Force landed 55,000 rifles & ammunition at Larne, Bangor & Donaghadee. A performance which Mr. Conquith declared was an "unprecedented outrage" & yet found himself unable to punish the perpetrators.

Section of Sandy Cliff at Millisle just south of Presb. Rectory House, where old road is being worked away.

G. V. S. 26-4-14.



Belvoir Park, near Belfast, Down.

A.V.S. 16-5-14.

Limax arborum
Agriolimax agrestis
 " *laevis*
Arion ater
 " *sulphureus*
 " *intermedius*
Hyalinaria cellanica
 " *alliana*
 " *nitidula*
 " *pura*
 " *radiatula*
 " *fulva*
Helix stans
 " *lucida*
 " *lanceolata*
Coch. lubrica
Carychium
Pupa anglica
 " *glabra*
A. bidentata

In Galvally Pond.

Limax peregrinus
Planorbis carinatus
 " *fontanus*
Bitt. tentaculata
Vatista cristata
Sph. cornu
Planorbis sp.

393

missing

'Hell's Hole' & northern cliff of
 Benvenagh. Derry. A.V.S.
 June, 1914.

(1) Hell's Hole. (2) Benvenagh.

<i>Limax arborum</i>	1 + 2.
<i>Arion ater</i>	1 + 2.
" <i>sulphureus</i>	1 + 2.
<i>Agriolimax agrestis</i>	1 + 2.
<i>Hyalinaria alliana</i>	1.
" <i>nitidula</i>	1.
" <i>crystallina</i>	1.
" <i>pura</i>	1 + 2.
<i>Sph. edentata</i>	1.
<i>Helix stans</i>	1 + 2.
" <i>lucida</i>	1 + 2.
" <i>remorata</i>	1 + 2.
<i>Carychium</i>	1.
<i>Clausilia bidentata</i>	1 + 2.
<i>Anagallis flaviventris</i>	1.
<i>Acicula lineata</i>	1.

Ballyholme River from sea to site
of old lake, n. of Six Road End,
now drained, ^{near} Banfor, Co. Down.
A. W. S. 16-6-14.

Agrio. agrestis

A. laevis

Helix nemoralis Abundant on a hedge of small
'sherry' bushes almost all
00300 rutella, which I find
is a very common Co. Down
form.

H. aspersa One or two with *H. nemoralis*.

Limnaea pfeifferi In bed of old mill dam flows
inland road from Banfor to
Donaghadee.

Limnaea peregrina In drains on site of old lake.

L. palustris Rare in drains.

Planorbis alba In drains & in drinking trough

" spirorbis Dead in mill dam.

" umbilicata. Taken near Ballyholme by J. Balfour
Brown on 8-5-09. Also in
Hyndman collection, Belfast Museum
from Ballyholme. Upon this

B. B. habitat must have
been the next stream which
now flows through the point at
Banfor. Here I found it
abundant in summer of 1914 A.W.S.

day I saw none but think
that in a wet season the
species may still occur in
the district about the mill
dam above referred to. The
Great Water Dock is very
abundant in this spot.

Physidina punctata (?)

" subtruncata

" sp.

} In drains

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Ballymacormack Point, Ballyholme
Down. A.W.S. 18-6-14.

* These were found on isolated 'islands'

Agrio. agrestis +

also *Helix stansdota*.

Unio sulphureus +

" barbus

" ater +

" aspersa.

Vitrea pellucida +

" pulchella (? white)

Hyalina alliaia + all type.

Coch. lubrica.

" nitidula

Pal. stapuleis +

" radiata +

Limnaea peregrina. In pool.

Coast from Camalea to Bangor, Ariz.
Aug. 20-6-14.

Arion ater.

"supper."

Lima *arbutum*

Agris. aperiens

Hyalinia nitidula D.

" *radiata*

Helix aspersa.

Clavicornis pidentata

I saw no trace of
Holot virgata which is
reported from here by R. J. Welch.
W. Welch, a brother of the
I have never believed that the
specimen brought by the former
came from here - a. W. S.
1914.

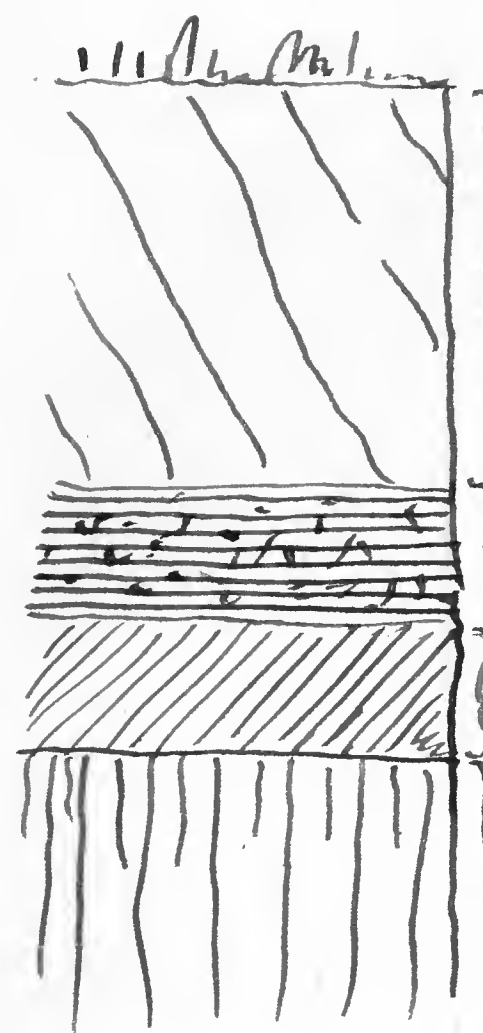
Still trail near Mayhew,
 Antwerp. A. W. S. 21-6-14.

This mail was reported on by Prof.
Isaac Swain in Irish Naturalist for

He got Linnaea percyi
Pteris glauca
Pistia pusilla

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Section 7 readers



level of meadows

- 1:6" to 2:6" of red clayey soil. (?) Hill-creeper.

Shell mark 1" to 7" or even 9" in place.

Blue clay 6" to 9"

Red sandy clay (?) top of Malone Sands
or Trias.

From the mail I wished

Agrio. laevis

One Shell.

Linum peregr.

Frequent.

L. palustris

Fragments of what I found is a very large shell of this species; but A. S. Kennard thinks it is L. stagnalis.

L. stagnalis

One 'baby' shell.

Planorbis glaber

Abundant.

11 vista

Key note.

Psidium

596

Griff from L. Reagh.
 W. King G.W.S. 25-7-14.
 C. T. Jones L. perger - leucostri
 Sue. Pfeifferi Sph. corner
 B. tentaculata B. nitida
 Pis. amice
 B. lillyborgii
 396A.

396 A

Killard Point, Down.

A. U. S. 30-6-14.

In deposits in sand dunes.

Helix hispida, *H. barbara*, *H. nemoralis*,
H. aspersa + *Collicopa lubrica*.

Living or recent dead.

Vitina pellucida D.

Helix barbara

" *nemoralis* Very many 00800 whella & tibellata
very high priced.

" *aspersa*.

Col. lubrica.

Pupa mucron.

" *cylindrica*.

River Lough at Bridge where locks
Downpatrick, Down. A. U. S. 30-6-14.

Limnaea peregra, *L. truncatula*, *Planorbis carinatus*
Bithynia tentaculata, *Valvata cristata*
+ *Sphaerium corneum*.

Colbramer Lake, 3 miles south-east of
Ballyvaughan. Down. A. U. S. 30-6-14

Limnaea peregra

Pupa fontinalis

Bith. tentaculata

Sph. corneum

Pandora milium

This lake looks quite
good & there appear
to be a mass under it
but I saw no shells in
this mass. A. U. S.

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Little Deer Park, Glenarm, Antrim
A. U. S. 22-7-14.

Agrius apertus

Philus fagata

Arion ater

" *intermedius*

" *circumscriptus*

Hyalina cellaria

" *alliaris*

" *radiata*

" *crystallina*

Helix rupestris

" *rotundata*

100 ft. alt.

On chalk just above road.

Little Deer Park, Glenarm, continued

Helix intermixta

on chalk debris to 100 ft. alt.
No doubt this is the 'coast road'
habitat reported to R. J. Welch
about 15 years ago by Robt. Patterson
who gave Welch some shells of
the species taken on "coast road"
between Farnon Point & Larne

H. nemoralis

H. hispida

H. arbutorum

'Murlough Bay' form. Flat.
Among nettles at base of
barren cliffs, 450 feet alt.

Aurilia tidentata

Pupa glandum

Acicula lineata 450 ft. alt.

Owencam Channel, Glenshorke,
Ballycastle, Antim. G.V.S. 2-8-14.

Lima arbutum

Aprio. apertus

Arion ater

" *mixtus*

Some quite decent lots of
netter scrub occur in this
glacial overgrown channel.
G.V.S.

Chalk Quarry behind Ballycastle Village,
Antim. G.V.S. 2-8-14.

Arion ater

Hyalina cellaria

Helix hispida

" *nemoralis*

" *intermixta*

Discovered here by Charles Oldham
in May 1913. Not seen here by
Welch, Standen & party in 1897-1900,
but may have been overlooked.
Nowadays it is abundant.

Horn Head, West Donegal.

A.W.S. 26-8-14.

*Agrio. agrestis**Arion ater**Hyalin. pura**Helix nemoralis**" aspersa.**" intermedia*

Abundant in 3rd sandy area. That
nearest to the Horn. Also
seen at Pollapool Bay.

*" itala**" turbara.*

Succinea Pfeifferi 3rd sandy bog, north of Pollapool.

Marbles + sand dunes below Raymondstown
Church, Falcarragh, W.D. A.W.S. 27/8/14.

*Agrio. agrestis**Limex. massim**" artem**Hyalin. allicum**Helix nemoralis**" itala**" turbara*

} Woods of Ballycunnell House.

*Limnaea peregr**" palustris**" truncatula**Aplecta hypnum*

Hitherto only recorded from Rosguill
by Weldon + on Irishmeane (J.N. Milne.)

*Planorbis leucostoma.**Valvata cristata*

Very abundant.

Pisidium subtruncat

398

Plants seen on
Mud Rish at 1500 ft on
north cliffs.

Sax. umbrosa
" stellata

Impatiens
Hymenophyllum

Solidago
r. aurea.

(not species?)

Deposit near mouth of Raz River,
Falcarragh, W. Donegal. A.S.
27-8-14.

List of shells taken in
deposits: north from
2.0 horizon.

Vitrina pellucida

Helix pygmaea

" *nemorali* seen in the gravel
at base of dep.

" *hippida*

" *itala*

" *lutea*

" *rotundata*

" *pulchella*

" *costata*

Coch. lutea

Carychium nigrum

Pupa muscorum

Vertigo pygmaea

Limnaea peregrina

" *pallidula*

Planorbis albus

Succinea piperi

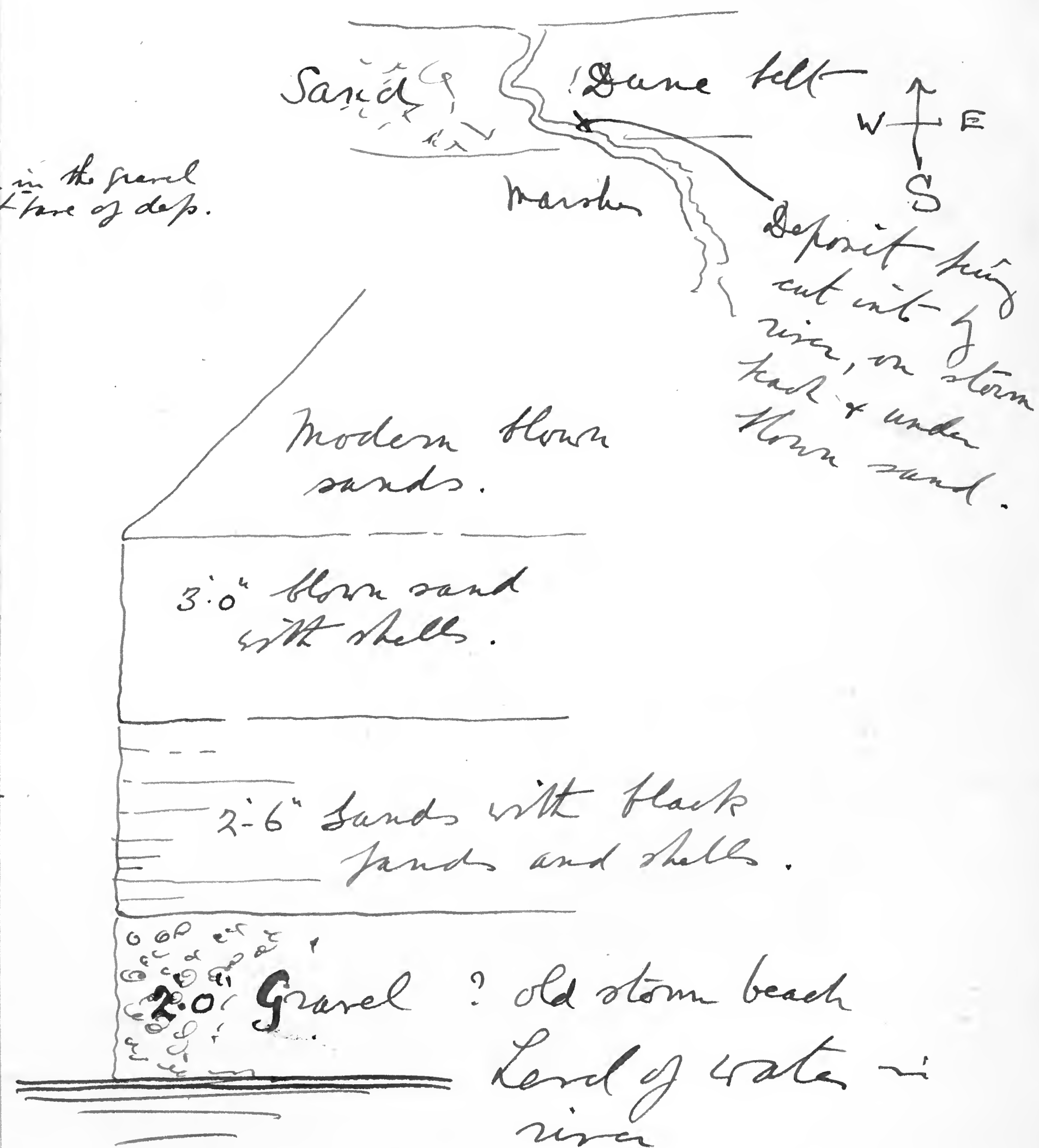
Valvata piscinalis

Pisidium pusillum?

" *nitidum*?

" sp.?

Casertanum?



This is evidently a deposit formed of
flood + wind blown material. The black
sands in 2.6 horizon represent flood
material.

Lough Tuill, 650ft., N. of Aghla beg,
W. Donegal. A.W.S. 28-8-14.

Limnaea sp.? One full grown specimen, many eggs
+ eggs under stones with fresh water
sponges (Heter. *hydra*?). Unfortunately
the tub containing the shell was lost
in crossing by on way home.
I am confident, however, that it
was referable to *L. praetensis* Bosc.

Lough Aluig, 850ft. alt., E. of Aghla beg,
W.D. A.S. 28-8-14.

A deep lake with shallow ^{stone} edge. No mud.

Limnaea
peregrina
A form of *Limnaea* almost
identical with that found in
Lough Salt further east, but
some shells are very like the
Scottish *L. turnerianae* type.

Pisidium sp.? One dead, broken, shell. Like *P. lilliputianum*
Arion ~~intermedius~~ } at south end of lake, among
Hyalina allicia } *Lugula*.

Lough Ladreegan, 1100ft. alt
E. of L. Aluiny. V.D. 658. 28-8-14

A shallow lake almost filled up
with stones & peat deposit.

No shells found by me.
I think I saw Lepidodermis
in this lake.

Plants seen
on 28-8-14.
Above L. Aluiny.
Rubus saxatilis (1 plant)
Sclerophylla uliginosa.
Antennaria dioica Mill.
near L. Aluiny.
Drosera (3 species abundant).
Juniperus nana. Dominant in place.
Githocera signatus.
? Juniperus nana.

Falcarragh District, West Donegal
A.V.S. 24/29 - 8 - 14.

Agrio. apertus
Limonax naxos } p. 236.
" arborum

Arion ater
" intermedius
Hyalina allium
" nitidula
" pura.
" radiatula
" crystallina

Helix sturdata
" pulchella
" rufescens

" nemoralis
" italica
" marmorea.

Certh. lubrica
Carychium minimum
Clausilia bidentata
Vertigo pygmaea

Also Succinea Pfeifferi
Limonax peregrina
" palustris
" truncatula
Aplousia hypnorum
Planorbis laevis
Valvata cristata
Purpura subtruncata
(401) duplicate
No. 398.

One dead shell in 'mud' ditch opp.
Rag Church.

September Trip, 1914.
A. W. S. & M. D. S.

Near Mallows, East Cork.
10th & 11th Sept.

<i>Lima flavum</i>	Abundant on wall by road leading up to station.
<i>Helix aspersa</i>	" " "
" <i>rufescens</i>	Roadside south of Mallows.
" <i>costata</i>	"
" <i>reposita</i>	"
" <i>rotundata</i>	"
" <i>hippida</i>	"
<i>Pupa cylindrica</i>	"
<i>Clavaria hirsuta</i>	"

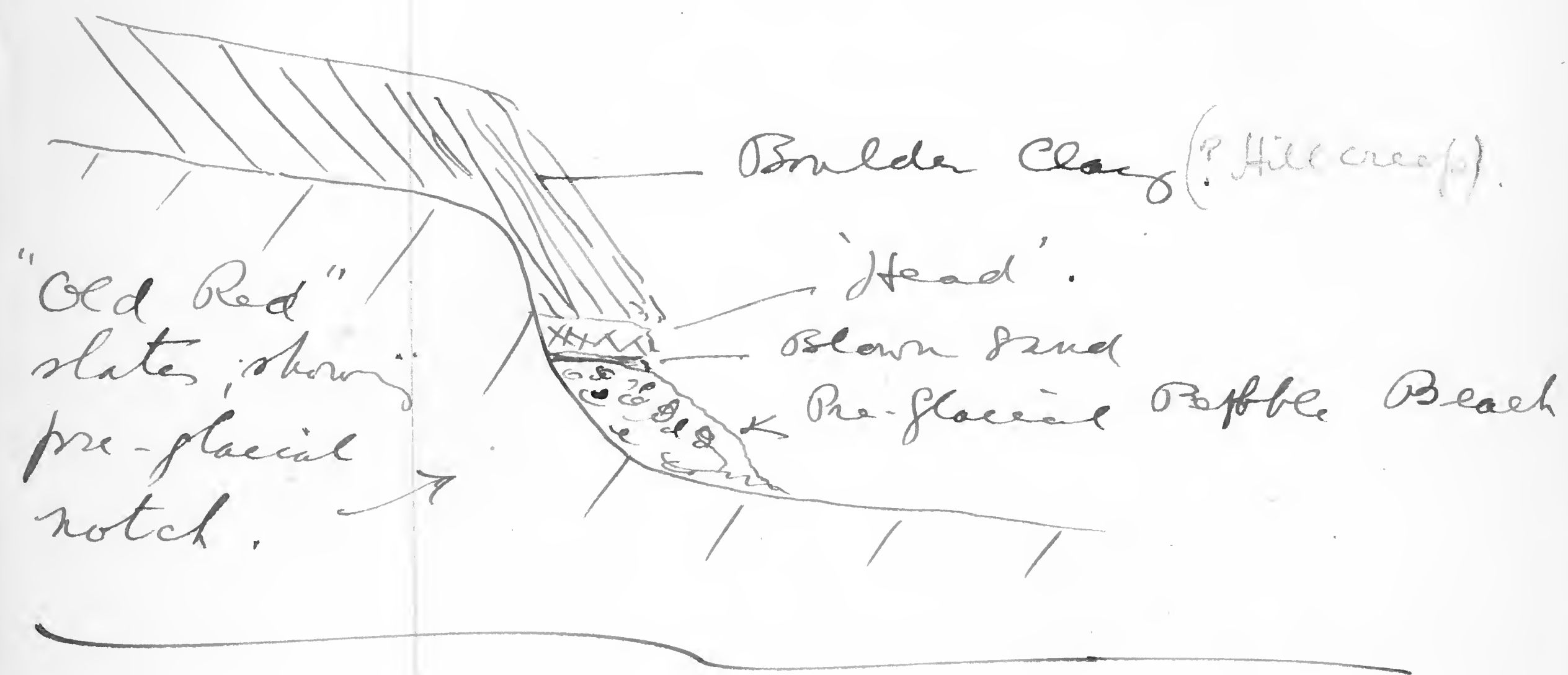
Along shore, east side of Single Harbour
near Black Point, South Kerry.

12-9-14

Those marked * were also seen fossil in the
sand along coast.

<i>Lima aspersa</i>	
<i>Agriolimax</i>	
<i>Hydrobia ulva</i>	
<i>Helix rotundata</i>	*
" <i>pulchella</i>	*
" <i>italica</i>	*
" <i>intersecta</i>	
" <i>nemorali</i>	*
" <i>aspersa</i>	
<i>Cost. lubrica</i>	*
<i>Vertigo pygmaea</i>	
<i>Pupa muscorum</i>	a few alive under stones near old tower.
" <i>anglica</i>	By stream.
" <i>cylindrica</i>	Type + var. <u>anconostoma</u> common by tower under the same fallen stones
<i>Clavaria hirsuta</i>	*
<i>Balea perrana</i>	

At the southern side of the entrance to Dingle Harbour there is a good section showing the pre-glacial raised-beach.



Roadside (To Connor Hills) for 2 miles
N. of Dingle, SK. G.W.S. 12-9-14.

Limax arboreus

Arion ater

" *intermedius*

Helix rufescens

near town only

" *intertexta*

" *venusta*

" *aspera*

Pupa cylindrica

Clavella bidentata

Coast from Ventry east to Doon, SK.
G.W.S. 14-9-14.

Limax arboreus

Arion ater

" *intermedius*

Hyalinia cellaria. Under stones on the cliff at 400 feet

" *alliana*

above Doon.

" *pura*

Helix rotundata

" *itala*

" *virgata*

" *intertexta*

" *barbata*

" *venusta*

" *aspera*

Corb. lubrica

Carychium

Clavella bidentata

Pupa cylindrica

Vertigo pygmaea

Succinea pflifferi

Note. Under heavy sand at Ventry Bay
there is submerged peat, with *Phlox*
springs.

Carrigblagha Cliff and west shore

Limax asper of Lough Anseaul, SK. A.W.S. 15-9-14.

Agrio. agrestis

Arion ater.

" intermedius

" circumscriptus

Vitrea pellucida D.

Hyalina alliana

" nitidula Var. helvi.

" pura.

" crystallina

Helix rotundata

" nemoralis

Among Lep. umbrosa on cliffs.

Pupa anglica

" cylindrica

Clavella pidentata

Ballintaggart, near Dingle. A.W.S.

16-9-14.

Agrio. agrestis

Limax asper

Milax sovietzi One in ruins of cottage.

Arion ater.

" subfuscus One young spec.

Hyalina cellaria

" alliana

" crystallina

Helix rotundata

" rufescens

" intersecta

" aspersa

" nemoralis.

With Milax sovietzi - Also on ditch tops

Enormous number of yellows, 00345 + 00300 at port opposite Reenbeg on cliffs near landing place. Only two red specimens seen here.

Pupa cylindrica

Vertigo pygmaea

Bala perrusa.

Clavella pidentata.

Swanwick Bay^① and Ferriter Core^②
 S.K. A.S. 17-9-14.

Agrio. agrestis
Milax gagate 2.
Arion ater
Vitrea pellucida 1. on dune under stone

Hyalina alleani

" *nitidula*

Helix stansleyi

" *pulexella*

" *itala*

to 250 feet

" *vrijata*

" *barbara*

" *internata*

" *remorata*

" *aspara*

Very abundant.

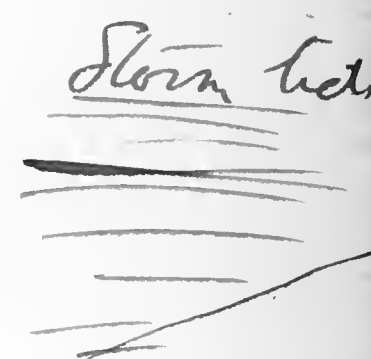
Coch. lubrica

Pupa cythra

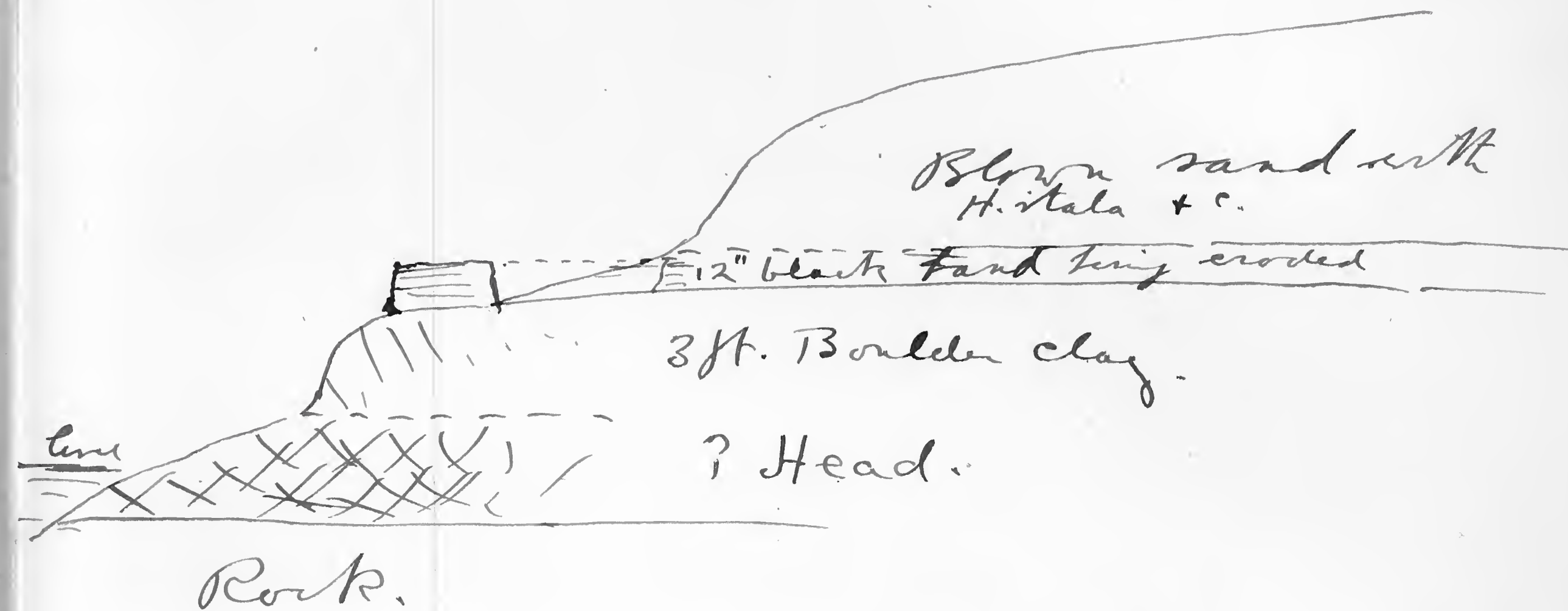
Clausilia bidentata

Vertigo angustior

Three shells under a stone on dune north
 of Ferriter Core.



Holocene deposit at Ferriter Core, S.K.
 G.W.S. 17-9-14.



Shells from above 12 inch "black sand".

Milax sp? A shell that looks like *M. gagate*.

Arion sp. (A.S.K.)

Hyalina alleani

" *nitidula*

" *pura*.

" *radiata*

" *agrestis*

" *pulra*

Helix stansleyi

" *pulexella*

" *pygmaea* (A.S.K.)

" *aculeata* (A.S.K.)

also
Helix remorata

Coch. lubrica

Carychium

Clausilia bidentata

Pupa anglica, cythraea + *Murex*

Vertigo pygmaea

" *angustior*

Acicula tenesta

And marine shells including *Patella*.

Burnham Woods, Dingle, St.
A.S.S. 18-9-14

Limax arboreus

Agriolimax agrestis

Milax sordidus

Arion ater

" hortensis

" circumscriptus

Hyalina alba

" nitidula

" crystallina

Fontinalis

excavatus

Helix rotundata

" hispida

" rufescens

" nemoralis

" aspersa

" pulchella

Coch. lubrica

Pupa anglica

" cylindracea

Clausilia pidentata

Campyl. minus

On mixed bridge

Type only. Common under rotten logs
near end of old bridge.

On bridge

In plantations locally.

} Both on bridge

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On Sleircanea, east of Connor Hill, Dingle
St. A.S.S. 19-9-14.

Limax arboreus

Arion ater

} Common to 1900 feet alt.
On this day I got *Herminia flavicornis*
the Centipede record, and also a
3rd fresh record of the Spider taken
male specimen of the male cone taken
the first male cone taken
according to D.R. Park. Bessford.

Neighborhood of Dingle, Workhouse and
The farm, St. A.S.S. 20-9-14

Limax maximus

" arboreus

Milax sordidus

Agriolimax agrestis

Arion ater

" rufescens

" circumscriptus

Hyalina alba

" cellaria

" radiatula

Helix rotundata

The farm. Also

Helix hispida (rare)

" pulchella

" aspersa

" nemoralis

Pupa cylindracea

Vertigo pygmaea

Clausilia pidentata

Campyl. minus

Shells washed out of 'Blown Sand'
in dunes on South Shore of Dingle
Harbour, near Old Water Tower, St.
A. U. S. 21-9-14.

Hyalina crystallina
Helix pulchella
" *itala*
Coch. lubrica
Pupa muscorum
" *cythraea*
Vertigo pygmaea
" *angustior*

Burnham Woods, Dingle, St.
A. U. S. 21-9-14.

Limnaea maximum
" *arborum*
Nilus fagata
Agrius agrestis
Anisus ater
" *hortensis*
" *intermedia*
" ~~officinalis~~
" *circumscriptus*

Hyalina cellana
" *alliana*
" *nitida*
" *pura*
" *crystallina*
Jon. encusatus
Eucosmia pulchra
Helix rotundata
" *lispida*
" *reflexa*
" *remorata*
" *cupressa*
Coch. lubrica
Lugenia mini
Clavella bidentata
Pupa aglicae
" *cythraea*

Gorge of the Finglas River, Camp
near Castlegreary Junction, S.K.

A.S. 22-9-14.

Limax maximus

" *arvensis*

Nitidulites *smithi* Very common & very big near ^{N.} head of
plantation.

Agriolimax *agrestis*

Arion *ater*

" *subfuscus*

" *intermedius*

" *hortensis*

" *circumscriptus*

Hyalinaria *cellaris*

" *allium*

" *nitidula*

" *pumila*

" *radiatula*

" *crystallina*

Lim. excavatus

Helix *strobilata*

" *reflexa*

On typical specimen on *Erigeron* grass.

On *Luzula* & *in* woods; but
also on ditch & *in* open road
to Dingle.

Helix *granulata* Abundant in woods on *Luzula* & *c.*

" *memoralis*

" *aculeata*

Coch. lubrica

Carychium *min.*

Balea *pervicax*

Clanwinia *hidulata*

Pupa *argyrea* Very common.

" *cythidus*

Acicula *lineata*

Owenmore, above Cloughan, S.K.

A.S. 25-9-14.

Lim. peregrinus In pools flooded by river 'Lake' from.

Argyria *flavistola*

Margaritana

margaritifera

Luzula *delavayi* Common on *Pan.*

Lim. peregrinus
Acicula *lineata*

Helix

Brandon Mountain, S.K.

25-9-14

Linnæa arbuscula Var. *repens*. To 2,500 feet to summit. This is the slug which puzzled us on former visits & was mistaken by Mr. Welch & myself for a black *Melospiza*.

[No sign of *Linnæa cinerea* - never recorded by J. R. & B. Tomlin. J. C. 1910.]

Arion ater to summit.

" *subpurpureus* at 2200 feet.

" *intermedius* at 1800 feet.

Hydrobia pura } at 1700 feet.

" *crystallina*

Lemna truncatula Apr. Faba at 750 feet.

Arctophila fluitans In top lake, 2300 ft.

Prisidina

See Vol. II

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missing

Fermoyle Wood, near Clifton, S.K.

A-U-S. 26-9-14.

Linnæa maritima

" *arbuscula*

Melospiza cinerea

Agrius agestis

Hydrobia cellaria

" *nitidula*

" *pura*

" *crystallina*

Helix stans

" *liripida* (a few only).

" *aculeata*

" *lamellata*

" *italica*

" *intersecta*

" *memorabilis*

" *aspera*

Coch. lubrica

Carychium

Arctophila fidentula

Vertigo pyrum

Pupa agestis

glabra

Acicula lineata

Along road.

On roadside.

On roadside.

Lough Armanagh, 500 feet alt,
near Clophane, ST. A.V.S. 27-9-14.

Arion ater

Limnaea purpurea of the usual local lake form.

No sign of Anagallis flaviventris.

Found the following plants on cliffs above
Lough Armanagh.

Polygala vulgaris

" *grandiflora*?

Selaginella selaginoides

Agrostis dijgna

Scirpus sylvaticus

" *umbrosa*

Trichomanes radicans. at base of left hand outcrops
under a large rock with ash tree growing
above it. 3 plants.

Hymenophyllum wilsoni

Lactuca scariola

Pinguicula grandiflora

Sedum Rhodiola

Hazel, Holly, Ash and Mt. Ash on the
cliff.

also *Protea laevis* {
Utricularia sp. {
Lepidium Dortmunda { lake

Found the
above *Pinguicula vulgaris*
Alchemilla idem
Rubus saxatilis

Clogharea Lough, below Connor Hill,
ST. A.V.S. 25-9-14.

Limnaea purpurea

Pinguicula sp.

402

On the way down from Connor Pass to the
lake are several 'bee-hive' huts
in ruin.

Hill Villa Wood, near Kileammin, east
of Clophane on road to Castleprey.
ST. A.V.S. 28-9-14.

Limnaea

" *arvensis*

Agrostis apertior

Arion ater

" *subpurpurea*

" *intermedia*

" *irregularis*

Hyalinaria albicans

" *nitida*

" *purpurea*

Pale steel blue specimen seen.

Rare.

Common.

V. rare.

Kilcummin Woods, continued

Hyalina radialis

" *crystallina*

Jun. excavatus

All var. *nitida*. Very abundant
+ with *H. rotundata* + *P. applan* the
commonest shell in the woods.

Purpura pyrum

One shell.

Helix rotundata

" *hemorali*

Coch. lubrica

Carychium mini

Clavus hibernicus

Pupa applan

" *cylindrum*

END OF KERRY TRIP 1914.

Gravel-pits by railway, near Hurdstown
Donaghadee, Co. Down. A.S. 20/11/14.

Limnaea purpur very high spired form.

Pisidium caeruleum 'Shell, thin!

" *nitidum*. Large, thin + v. striate! (H03A)

" *milium*. One small, very ornate shell!

✓ Ver. by
A.W.S.
2/12/24!

Portaroe Demesne, near
Donaghadee, Down.

A.W.S. Jan. - May, 1915.

Limnaea maximus

Common + evidently native.

" *arbutum*.

Frequent.

Agriol. applan

Common

" *laevis*.

About the lake.

Arion ater

Common.

" *suffusus*

" *intermedius* Rare

" *hortensis* Rare

" *circumscripta* Common.

Hyalina cellaria Frequent.

" *albicornis* Common

" *nitidula* Rare.

" *radiatula* Rare

" *pura* Common.

" *crystallina* Common; a large conical form.

" *fulva* Common.

Helix rotundata Common.

" *herpida* Frequent, not common.

" *aculeata* One specimen.

" *hemorali* Rare.

Portero continued

- Coch. lubrica*. Rare.
Cerzothium minimum Frequent.
Clausilia bidentata Common; small form.
Balea perversa Rare.
Pupa anglica Common in places.
" cylindrica Frequent.
Vertigo substriata Several.
Acicula lineata. Rare.
Succinea Pfeifferi Near ponds.
Limnaea pereger In mill dam.
Planorbis albus " " "
 " [glaber] Recorded from pond at Portero
 by Wm. Thompson. Not seen
 recently, but probably not
 extinct in the serpentine lake.
 " contorta In mill dam.
Sph. vireum " " "
Pisidium pusillum " " "

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Also *Vitrea pellucida*
 on 16-1-16.

On coast at Portero, Do.
 Jan. May. 1915.

- Orion intermedius*.
Helix pulchella.
 " *aspera* All common but local.
 " *barbara*
Vitrea pellucida

On farm at Ballymager, or near by,
 Bangor, DO. Jan. Dec. 1915.

Agrio. apertis. Common.
Limax maximus. Common. ? native, but perhaps NN*.
" asperum Frequent about ledges.
" flavus About the house &c. An African alien.
Milax gagates In garden; come with plants?
Arion ater. Frequent
" subfuscus "
" intermedius Common in fields & ledges.
" hortensis Common, but mainly in garden.
" circumscriptus Common
Vitrina pellucida. Very common under white bark in fields, in December.
Hyalina cellaria About house & garden, not native!
" nitidula Rare, about ditches.
" alliana One in Johnston's place, top field.
" radiatula One by the Paddock pond.
" crystallina Frequent.
Helix rotundata Common.
" limpidula Frequent.
" nemoralis Frequent.
" aspersa About the house & garden, not native!

Bufo cylindracea Rare, a few in fences.
Bufo ferussacii Frequent, in fences.
Vertigo pygmaea One in old willows bog. 9.10.15.
Limnaea truncatula By the Paddock Pond.
Columella edentula A few in the fences.
Planorbis leucostoma Very abundant in both ponds.

Bufo arctica In hedge along old lane to Primsey.

Milax gagates Looked native! One specimen
Agrio. apertis
" caesia.
Arion ater
Helix rotundata
Vertigo pygmaea
" antistertio
Limnaea truncatula
" pereger

} All common but, *h. gagates*
 by the brick ponds.

Carnjane Sord, 400, to 700 feet alt,
DO. A.W.S. August - December 1915.

<i>Limax maximus</i> .	Common. Very spotted form occurs.
" <i>arborum</i> .	Common.
<i>Agrio-apestis</i>	"
<i>Arion ater</i>	"
" <i>suffusus</i>	"
" <i>intermedius</i>	"
" <i>hortensis</i>	Frequent, one very dark specimen.
" <i>circumscriptus</i>	"
<i>Hyalina alba</i>	Common.
" <i>nitida</i>	Rare.
" <i>crystallina</i>	Common.
" <i>fulva</i>	Several.
<i>Helix rotundata</i>	Common.
<i>Pupa anglica</i>	Rare.
" <i>glabrata</i>	"
<i>Coch. lubrica</i>	"
<i>Columella edentata</i>	Common.
<i>Clausilia bidentata</i>	?
<i>Balea perversa</i>	Frequent.

Mill-dam Glen, near Bangor, DO.
A.W.S. 12-9-15.

<i>Agrio-apestis</i>	
<i>Arion ater</i>	
" <i>suffusus</i>	
" <i>intermedius</i>	
" <i>circumscriptus</i>	
<i>Vitrea pellucida</i>	
<i>Hyalina alba</i>	
<i>Helix rotundata</i>	
" <i>fulva</i>	
<i>Coch. lubrica</i>	
<i>Columella edentata</i>	
<i>Clausilia bidentata</i>	A very small form.
<i>Balea perversa</i>	

Beech Woods, Malone House, near Belfast,
A.W.S. 21-12-15. AN.

Limax maximus
" *arborum*
Arion ater
" *rufus*
" *hortensis*
" *circumscriptus*
" *intermedius*

Agriolimax agrestis

Eucorula fulva. [Very often common in winter]

Punctum pygmaeum In extraordinary abundance on fallen
leaves, beech + elm, & on twigs &
branches [very wet weather]. I counted
17 on one stick.

Helix rotundata
Claustilia pidentata
Colanella edentata

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Dunbo Glen, DO. A.W.S. 22-12-15.

Limax arborum

" *maximus*

Agriolimax agrestis

Arion ater

" *rufus*

" *intermedius*

" *circumscriptus*

Hyalina cellaria

" *alliarum*

" *pura*

" *radiatula*

" *crystallina*

Punctum pygmaeum

Helix rotundata

" *lurida*

Colanella edentata

Pupa anglica

Corychus minimus

Claustilia pidentata

Bulca pumila the baby shell.

G. lamellata + *G. lineata*
not seen on this occasion,
but their habitats were
not worked. A.W.S.

Common under fallen leaves.

Shore at Ballymacormick Point, Bangor, DO.

A. W. S. 28-1-16.

Oratella bidentata Very abundant with nest at half-tide mark.
Otina otis One "family" consisting of two adults & about 10 small ones.

Note I found the above shells when searching for the False Scorpion *Obisium maritimum*. A short paper on this association by me was read at a meeting of the Mal. Soc. London in June 1917.

Carnaguen Woods, DO. A. W. S. 13-2-16.

Psidium persicatum Under log in wet swampy place in the wood.

Same locality.

A. W. S. 2-4-16.

Lima maximus
 " *artorum*
Agrio. agrestis
Arion ater
 " *subfuscus*
 " *circumscriptus*

Hyalina alliarum
 " *crystallina*
Sph. edentulaceus

"Tower View", Ballymoyee, Bangor, DO.

A. W. S. 8-4-16.

Milax pupata } Both by the old manure heap in
 " *sovatzkyi* } quarry field.

Ballymacormick Point to Groomport, DO.

A. W. S. 27-4-16.

Agrio. agrestis
Lima maximus Groomport.

Arion subfuscus
 " *intermedius*
 " *circumscriptus*

Vitrea pellucida
Hyalina alliarum
 " *pura*

" *crystallina*
Helix pygmaea

" *pulchella*
 " *hispidula*
 " *barbata*
 " *aspera*
 " *nanoralis*

By the old lime kiln near Groomport.

Coch. lubrica
Pupa cylindracea
 " *muscorum*

By the lime kiln: one dead shell.

Ballymacormick Pt. to Groomsport continued.

Balea perversa Very common on walls & round the old lime kilns.

Lemnaea peregrina.

" *truncatula*.

Aplista hypnum

Planorbis cristatus

" *leucostoma*

Pisidium caeruleum

All in small pool on the Bangor side of the Point.

Collected for me near Kilkeel, Co. Down.
by Nevill H. Foster Esq. 21-4-16.

1. In Mourne Park.

2. By the coast at Kilkeel.

Lemnaea maxima 1.

" *arborum* 1.

Agriol. agrestis 1.

Arion ater 1.

" *hortensis* 1.

Vitrina pellucida 1.

Hyalinae cellaria 1.

" *nitidula* 2.

" *albicans* 1.

" *pura* 1.

" *crystallina* 1.

Helix rotundata 1.

" *rufescens* 1.

" *neurolebi* 2.

" *aspera* 2.

Cochlicopa lubrica 1.

Pupa cylindrica 1.

" *anglica* 1.

Clausilia bidentata 1.

Carrigara Woods, DO.

A. W. S. 30-4-16.

Agriol. agrestis

" *laevis* Very pale coloured.

Lemnaea maxima

" *arborum*

Arion ater

" *rufescens*

" *intermedia*

" *hortensis*

" *circumscriptus*

Hyalinae alliana

" *fulva*.

Helix rotundata

Sph. edentulum

Lagar Valley to 2nd Lock, Belfort, AN.

A. W. S. 13-5-16.

Arion ater

" *hortensis*

" *intermedia*

Hyalinae alliana

" *radiatula*

" *crystallina*.

Lagan Valley continued. AN.

*Eucomula fulvus.**Helix retundata**" pulchella.**Coch. lubrica.**Carychium minus**Pupa anglica.**Vertigo pygmaea.**" antiveritigo.**Succinea putris**" pfeifferi.**Limnaea pereger.**" palustris.**Physa fontinalis**Planorbis carinatus**Valvata piscinalis**Bith. tentaculata**Sph. cornu.**" lacustris.**Pisidium ~~nitidum~~.**" nitidum.**" hibernicum.**"*

In the ruins of the old pumping station.

Opposite the Boat Club-house.

perronetum. In willow swamp beside dam.

In the river.

In dam

(401)

and in old water

course above tow-path.

Torrent River Valley, Co. Tyrone.

B.W.F.C. Excursion. 3-6-16. A.U.S.

*Limax maximus**" arborum.**Agri. agrestis.**Arion ater*

Brown & black forms.

" intermedius.

In old brick works near Coalisland.

*" hortensis**" circumscriptus**Vitrina pellucida*

Dead.

*Hydrobia ulmina**" cellaria*[No *H. nitidula* seen]*" pura.**" radiatula*

N.H. Foster.

*" crystallina**" fulva.**Helix retundata**" pulchella.*

Several under stone in old lane near

the Aqueduct. N.H. Foster.

*" aculeata.**" fusca.*

In Murray's wood.

*" hispida**" nemoralis.*

Torrent Valley continued.

Coch. lubrica.

Carychin minus

Classilla bidentata

Columella edentula

Vertigo pygmaea.

Acicula lineata.

Linnæa peregrina. 3.

" palustris 2.

" truncatula 2.

Physa fontinalis 3.

Planorbis carinatus 3.

" contorta 2.

Bith. tentaculata 3.

Valvata cristata 3.

" piscinalis 3.

Sph. cornu 3.

" lacustris 3.

Pisidium mthanae 1 + 3.

" nitida 1 + 3.

" 2 2

Torrent River = 1.
 Aqueduct = 2.
 Canal at
 Coal Island = 3.

Torrent River
 Canal at
 Coal Island

408
 409

Cotton Moss, near Donaghadee, DO.

A. U. S. 15-6-16.

Linnæa peregrina.

Planorbis cristata Very abundant in Scirpus fluitans
in roadside ditch.

Carrigrohane Woods, DO.

A. U. S. 25-6-16.

Agrius laevis

Hyalina radiatula

Pisidium Under logs again. See 408.

Rocks and Scrub in Lough Haroon district,
Co. Antrim. B. N. F. C. 1-7-16.

Linnæa artem

Agrius apertus

Anisostoma Black. All over bog.

" intermedius

" circumscripta

Hyalina pura

" nitidula var helmi.

Helix stans

" aculeata.

Coch. edentula.

For list of
 moss
 shells from
 Donaghadee
 D. T. O.

Moss shakings from L. Karoon district.

AN. A.W.S. 1-7-16.

Hyalina radiatula

" *alliana*.

Coch. lubrica.

Punctum pygmaeum

Pupa anglica.

" *cylindracea* Var. edentata.

Carychin mini

Windy Gap, Black Mt., Belfast. AN.

A.W.S. 22-7-16.

Agric. apertis

Arion ater.

Hyalina cellaria Very large, as usual.

" *alliana*

" *nitidula*.

" *pura*.

" *radiatula*

" *crystallina*

Helix rotundata

" *hipida*.

" *remorali*.

Junior B. N. F. C. Ex. but

did not look specially

for shells.

Also. *Helix pulchella*. One shell
1/4 east of mouth of Glen
on chalk slip.

Coch. lubrica.

Clausilia bidentata.

Anagallis flavitili.

Mill-dam Glen, S. of Bangor. DO.

A.W.S. 1-10-16.

Eucnemis fulva

Hyalina alliana

" *crystallina*

Went to the White Bog, for marl, with J. A. S. Stendall.
See Marl register! 20-10-16.

Killough District, DO. A.W.S. + J.A.S.S.

Agric. apertis

20-10-16.

" *laevis*.

One nearly black in White Bog.

Limax maximus

Arion ater

Var. reticulata along coast, as usual.

" *circumscripta*

Hyalina cellaria

" *alliana*

" *pura*.

" *radiatula*

" *crystallina*

Helix rotundata

" *hipida*

" *remorali*

" *urpersa*.

Also. *Coch. lubrica*.

Clausilia bidentata.

Pupa cylindracea

Limax perper in

1" deep drain by the

entrance under the

stone a marl was

forming!!!

Old field Quarry between Ballymacee
& The Primacy where feranium
columbinum grows. DO.

A.W.S. 22-10-16.

Punctum pygmaeum

Upper Colins Glen, Belfast Hills, AN. 31-10-16.

Limax arborum

Agris. agrestis.

" laevis.

Anion hortensis

" circumscripta

Vitrina pellucida

Hyxlinia alliana

" nitidula Very common.

" pura.

" crystallina

" fulva.

Helix pygmaea.

" retundata

" pusca.

also, Helix hispida.
" lamellata.
" arbutorum

Coch. lubrica.

Carych. minus.

Clavibia tridentata.

Purpa anglica.

" cylindracea.

Col. edentula.

Ballygrainey Slate Quarries, near Bangor, DO.

A.W.S. 4-2-17.

Vitrina pellucida

Punctum pygmaeum

Vertigo anglica

Purpa cylindracea

" anglica? 1 dead young shell, almost certainly this
specimen.

Mill-dam Glen, Bangor, DO. A.W.S.

23-3-17.

Limnaea palustris

" truncatula By the main road, in a spring, opposite
Sam Moore's House, with P. personatus

Aplecta hypnum

Planorbis leucostoma

Pisidium casertanum With L. palustris & rust.

" personatus With last & other places.

" subtruncatula Edge of stream.

From the date
mentioned the
residence was
about 1875
the 1875-1876
1875-1876

Tower View, Ballymacee, Bangor. DO. 30-3-17.

Punctum pygmaeum Dead. On fence at John's Lane.

Old Mill-dam & flux-dams south of
Ballyholme, Bangor, DO. 3-6-17.

- Limnaea pereger*. Dead shell in stream.
- " *truncatula* Flux dam at the "Home".
- Planorbis leucostoma* Dead shell in stream.
- " *contorta* Flux dam. Common.
- Pisidium caustum* Mill race.
- " *punctum* Many found in mill race & stream above dam.
- " *subtruncatum* Mill: rare.

Also.

- Helix rotundata*
 - Carychium uncinatum*
 - Anisus rotundifolius*
 - Apis. agurhi*
- } On edge of flux-dam.

^{& Burn}
Ballyree Marsh, 1/4 N. of Ballygrainy Quarris,
near Bangor, DO. G.U.S. 6-6-17.

- L. palustris*
 - Pl. leucostoma*
 - " *contorta*
 - Pis. nitidum* vera!
 - " *subtruncatum*
- } In marsh.

Hillsborough Park Lake, DO.
Coll. by Kevin H. Foster, 3-7-17.

- L. pereger*.
- L. auricularia* 1 var. acuta.
- L. palustris*
- Pl. abtus.*
- B. tentaculata*
- V. pinnatifida*
- Pis. caustum* Dead.
- " *milium*
- " *nitidum* vera.

Drumlogh Moss, near Hillsborough, DO.
N. H. Foster July 1917.

- L. pereger*.
- Physa fontinalis*
- Pl. contorta*.
- Pis. milium*
- " *subtruncatum*

~~M. Kees' Dam / Hillsborough DO.
N. H. Foster 10-7-17.
L. pereger, *L. auricularia* - acuta
Pl. contorta, *Pl. abtus*
Pis. nitidum vera and *P. hibernicus*~~

Moyne's Lough, 4 miles S.E. of
Hillsborough, DO. N.H. Foster. 10-7-17.

L. peregr.

Sph. cornu.

Pis. nitidum vera.

P. subtruncat.

P. hibernicum In ~~lake~~ inlet to lake only.

P. milium In inlet only.

Lough Erne, 6 miles E by S of Hillsborough, DO.
N.H. Foster. 10-7-17.

L. peregr.

Physa fontinalis

Anatya fluvialis

B. tentaculata

V. piscinalis

Sph. cornu.

Pis. nitidum vera.

Also at a later date

Pis. pulchellum

Mouth of Carronnet River (opposite Lisburn) DO.
N.H. Foster. 17-7-17.

L. peregr.

Anatya fluvialis Dead.

Physa fontinalis

Pl. albus

carinata

V. piscinalis

B. tentaculata

Sph. cornu.

P. amicum

P. nitidum vera.

P. subtruncat.

Hillsborough, McKee's Dam, Donore and
Begney Lough districts. A. J. S. & N. H. F. 1-8-17.

L. peregr., Common. *L. auricularia* McKee's Dam, *L. pulchellum* ^{Begney L.}

Physa fontinalis: Begney Lough. *Pl. albus* Begney Lough.

Pis. caertanum Begney L.,

" *nitidum* vera. Begney L.; flax dam near same; McKee's Dam

" *milium* Begney L.; flax dam near Donore.

" *hibernicum* Flax dam near Donore.

" *subtruncat.* Begney Lough; McKee's Dam

" *pulchellum* Begney Lough near outlet.

17-22.
17-23.
17-24.

Portmoe Lough, Co. Antrim.
N. H. Foster. 25-8-17.

L. peregr.

L. auricularia var. *acuta*.

Pl. carinatus

" *globus*.

A good number of dead shells. This
is a verification of Thompson's old
record.

B. tentaculata

V. piscinalis

Sph. cornu.

Pis. casertanum

" *nitidum* vera.

" *subtruncatum*

Almost all
dead shells
collected near
'quays' the
South side
of lake.

17-26

Old Flax Hole near L. Aghery,
Hillsborough, DO. N. H. Foster. 29-8-17.

L. peregr.

L. palustris

Pl. albus.

" *contortus*

Pis. milium

River Blackwater at Verner's Bridge,
Co. Tyrone side. N. H. Foster. 10-9-17.

Lim. stagnalis

Pl. carinatus

Physa fontinalis

B. tentaculata

Sph. cornu.

Pis. subtruncatum

Mill-race, Rougban. TY. N. H. Foster. 10-9-17.

L. auricularia. Fine specimen of var. *acuta*.

Physa fontinalis

Pl. albus.

" *contortus*.

V. piscinalis

" *crispata*.

Pis. nitidum vera

" *subtruncatum*.

Also dead shells of

Hygonia rufescens.

Pyramidula rotundata.

Coch. lubrica.

Rougban Lough, TY. N. H. Foster. 10-9-17.

L. palustris. *Physa fontinalis*.

Pl. albus, *Pl. contortus*, *Pl. fontanus*.

V. piscinalis. *Bith. tentaculata*. *Sph. cornu*

Pis. casertanum, *P. nitidum* (vera), *P. milium*

P. subtruncatum.

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